

BIO-DATA

Name : Dr. Narendra Kumar Arya
Rank : Scientist 'G' (since 01-07-2014)
Posting at : ARDB, DRDO HQ
Date of Birth : 01-07-1967



Educational Qualifications (From Graduation Onwards):

Degree	Year of Passing	University/ Institute	Subject
B. Tech (Hons.)*	1988	IIT Kharagpur	Aero. Engg.
M. Tech**	1990	IIT Kanpur	Aero. Engg.
Ph.D	2018	IIT Delhi	V.E. in Engineering

* IITJEE rank 1314. Project on Hovercraft design & working model under Prof. B.K. Parida.

**** Selected for IGMDP senior fellowship for composite materials. Project on fatigue of carbon composite under Prof. B.D. Aggarwal & Prof. NGR Iyengar.**

Work Experience and Responsibilities Handled

17-02-2022 till date at AR&DB, DRDO Headquarters, New Delhi

Working as Secretary, Aeronautics Research and Development Board (ARDB) DRDO Hqr at present. More than 130 projects are running at present in AR&DB. Started three new national programs.

02-09-2019 to 16-02-2022 at DPI, DRDO Headquarters, New Delhi

Served as Director, Directorate of Public Interface (DPI) at DRDO Headquarters, New Delhi. I was Spokesperson of Department of Defence R&D interacting actively with Media. I was responsible for coordinating public outreach activities and interactions facilitated through Press Releases, Events, Product launches/exhibitions/seminars, etc. Also responsible for media management, coordinating/organizing one-to-one Interactions/ interviews, Press-conferences and DRDO's participation in Republic Day Parade, conduct of DRDO's National and International Exhibitions, liaison with Directorate of Public Relations (DPR), Ministry of Defence and other agencies. Represented DRDO in International Exhibitions at Moscow and Tokyo.

15-7-2008 to 01-09-2019 at Air Headquarters, Delhi.

As Scientific Advisor to Chief of the Air Staff (CAS) at Air Headquarters, New Delhi, conceptualized and coordinated many new projects. I was involved in many other activities such as preparing technical reports, ASQRs, feedback and Air Headquarter's interface with DRDO. Contributed in various meetings like SEPC, ISEPC, ISCDC, PMB (Kaveri), IAF Technology Board, conferences and workshops etc. Reports prepared by me were appreciated on record by CAS and other senior authorities. Also held the additional charge of SA to CNS during 01 Dec 2014 to 16 Jun 2015.

04-04-1992 to 14-07-2008 at LASTEC, Delhi.

At LASTEC Delhi, worked in Gas Dynamic Lasers Division, developing various subsystems viz. Supersonic Nozzle Banks (Mach 5), Noise Suppression System, Aerodynamic Window, Resonator Structure, Supersonic Diffuser etc. Set overall system design parameters for all the GDL systems developed. Worked as Group Head Nozzle Bank and Aerowindow Group, Team Leader in project ADITYA and various other projects. At that time, High Power Laser was demonstrated to the President of India, Chief of the Air Staff (CAS), Chief of the Naval Staff (CNS), Chairman AEC, and many other dignitaries.

01-06-1990 to 03-4-1992 at DRDL, Hyderabad.

Worked in Quality Control and NDT of Advanced Composites at Directorate of Advanced Composites DRDL (presently part of ASL) Hyderabad. The work involved testing various components and quality control of fabrication process for LCA Brake disc, AGNI RVS etc.

Other Experiences

Solo gliding, NCC, Aero-modeling, Skeet ranging, Deputations Abroad.

Membership of Professional Bodies

Fellow of The Institution of Engineers (India)

Member of The Aeronautical Society of India, Systems Society of India, Indian Laser Association and Society for Aerospace Quality and Reliability.

Research Papers Published

Around 22 publications in reputed journals and conferences including Elsevier Publication. Following is the list.

Research Papers Published in International Journals

1. Arya, N. K., Singh, K., Malik, A., Mehrotra, R. (2018). Effect of Heartfulness Cleaning and Meditation on Heart Rate Variability. Indian Heart Journal (2018), DOI: <http://doi.org/10.1016/j.ihj.2018.05.004>
<https://www.sciencedirect.com/science/article/pii/S0019483217308878?via%3Dihub>
2. Arya, N. K., Singh, K., & Malik, A. (2017). Effect of Heartfulness Spiritual Practice based program on mental and physical health indicators. International Journal of Research in Management & Social Science, 5(3)(IV), 91-103.
3. Arya N.K., Singh K., & Malik A. (2017). Impact of Five Days Spiritual Practice in Himalayan Ashram of SahajMarg on Well-Being Related Parameters and Selected Physiological Indicators. The International Journal of Indian Psychology, 4(2), No.88, 36-49.
4. Singh K., Khari C., Amonkar R.S., Arya N.K., & Kumar S.K., (2013). Development and Validation of a new Scale: Sat-Chit-Ananda Scale. International Journal on Vedic Foundations of Management, 1 (2), 54-74.
5. Murlidhar C. & Arya N.K., (1994). Evaluation of defects in Axis-Symmetric Composite Structures by Thermography. NDT International.
<https://www.sciencedirect.com/science/article/abs/pii/0963869593904738>
6. Agarwal B.D., Arya N.K., Iyengar N.G.R. (1992). Acoustic Emission Studies of Fatigue Damage Growth In Carbon Fabric Reinforced Epoxy Composite. Advanced Composite Materials 2, 2, 117-134.
<https://www.tandfonline.com/doi/abs/10.1163/156855192X00152>

Research Papers Published in National Journals

1. Arya N.K., Singh K., & Malik A., (2013). Effect of Meditation on Work Performance, State of Mind and Health. Jigyasa Visheshank, 1, 48-52.

Research Papers Presented in International Conferences

1. Mehrotra, R., Arya, N. K., & Saxena A., (2019). Relationship Between Effect on Heart Rate Variability Parameters and Happiness Level During Heartfulness Meditation Processes.

World's First Symposium on Role of Meditation in Prevention and Treatment of Cardiovascular Disease.

2. Mehrotra, R., Arya, N. K., & Saxena A., (2019). Correlation among Heart Rate Variability (HRV) parameters during Heartfulness Cleaning and Meditation. World's First Symposium on Role of Meditation in Prevention and Treatment of Cardiovascular Disease.
3. Arya N.K., Singh K., & Malik A., (2013). Effect of Meditation on Performance, State of Mind and Health. International Conference on Contribution of Science & Technology in the World Progress.
4. Singh K., Khari C., Amonkar R.S., Arya N.K., & Kumar S.K., (2013). Development and Validation of a new Scale: Sat-Chit-Ananda Scale. 2nd International Conference on Vedic Foundations of Indian Management.
5. Arya N.K., Jindal K.S., Singh I., & Chatterjee A., (1999). Mirror Protection System for Combustion Driven Gas Dynamic Laser. International Conference on Laser Materials and Devices.
https://www.google.co.in/books/edition/International_Conference_on_Laser_Materi/JTEMLsYa0DYC?hl=en&gbpv=1&dq=subject:%22Kongress+-+Delhi+1999+-+Lasertechnologie%22&printsec=frontcover

Research Papers Presented in National Conferences

1. Arya N.K., Singh K., Malik A., & Saxena A., (2015). Role of Meditation in Developing Inner Resources for Better Management. National Conference on Technology Management (TECHMA - 2015).
2. Arya N.K., Singh K., & Malik A., (2015). Effect of Meditation on Health. Workshop on Scientific/ Technical Writing and Presentation.
3. Arya N.K., Kataria B.B., Pande V.P., & Jindal K.S., (2003). Development of Force Balance & Continuity equation for Free-Vortex Aero window. National Laser Symposium.
4. Kataria B.B., Arya N.K., Mukherji D., & Gupta S.D., (2002). Design of Muffler for Gas Dynamic Laser System. National workshop on High Power Lasers and Directed Energy Application.
5. Arya N.K., Mukherji D., & Kataria B.B., (2002). Free Vortex Aerodynamic Window for Gas Dynamic Laser. National workshop on High Power Lasers and Directed Energy Application.
6. Jain R.K., Dhawan C.M., Arya N.K., (2000). Atmospheric Discharge diffuser for Gas Dynamic Laser. National Laser Symposium.
7. Arya N.K., (1996). Combustion Driven High Power CW Carbon Dioxide Gas Dynamic Laser. National Symposium on High Power Lasers.
8. Arya N.K., Lahiri J. & Balakrishna K., (1992). Comparison of Different Test Methods for Evaluating Mechanical Properties of Carbon Fibers. National Workshop on Newer Carbon Products and Their Applications.
9. Arya N.K., Lahiri J. & Balakrishna K., (1992). Improving Mode-I Delamination Toughness of Carbon/ Phenolic Composite by Chemically Treating Carbon Fibres. National Workshop on Newer Carbon Products and Their Applications
10. Arya N.K., Agarwal B.D. & Iyengar N.G.R., (1990). Damage Identification and Growth in Carbon/Epoxy Composites Using Acoustic Emission Technique. First National Workshop on Acoustic Emission.