



## Administrative Experience:

Name of the Institution/Department	Designation	Nature of Post	Nature of Assignment	Period	Length of Experience
Oil and Natural Gas commission, Govt. of India (ONGC)	<b>Geophysicist</b> (Wells)	Permanent	Scientific Operations, Research and Managerial	7 Jul 1983 to 3 Oct.1988	5 Yrs 3 months
Chitrakoot Gramodaya Vishvidyalaya, Chitrakoot	<b>HOD Physics, Dean Science and Dean Student Welfare Officer</b>		Administrative	July 1992 To Nov. 1996	More than 4 Years
Allahabad University, Allahabad	<b>Laboratory Incharge of B.Sc. and M.Sc.</b>		Administrative + Technical	Dec.1996 to Dec.1998 (in B.Sc.II lab) Jul. 2005 to April 2017 (in M.Sc. (Prev.) general lab)	2 Yrs  12 yrs
Allahabad University, Allahabad	<b>Superintendent of Sir G.N. Jha Hostel</b>		Administrative +Financial Management	Sept. 2003 to Sept. 2005	2 Yrs
Allahabad University, Allahabad	<b>Programme Officer</b> of National Service Scheme (NSS)		Administrative + Socialistic Managerial	Sept. 2004 to 2012	8 Yrs
Allahabad University, Allahabad	<b>Principal</b> , All India Services Pre Examination Training Centre		Administrative + Financial management	July 2011 to May 01, 2017	7 Yrs
Hindusthan Samachar (Multilingual News Service Agency)	<b>Director</b>	By election	Administrative and managerial	2010 - 2016	7 Yrs

## Remarkable achievements in Administration:

- Established the whole Science faculty particularly the laboratories of all the departments of the faculty in record time working as a Dean-Science and Head of Physics Department- Mahatma Gandhi Chitrakoot Gramodaya Vishwavidyalaya-Chitrakoot, Distt.-Satna (M.P.), India.
- During the tenure as a Superintendent of Sir G.N. Jha Hostel, Allahabad University. Record new admissions more than 90 out of total capacity 200 students were made in one year and presented the +2 lakh rupees budget in place of -3 lakhs at the time of taking charge and renovation work was done of more than 3 lakhs by managing the donations. Since then, the hostel is producing IAS/Scientists every year.

**Research Interests:** Nanoscience & Technology, Laser Spectroscopy, Ultrasonics, Nondestructive Characterization Sciences of Nanofluids, Nanocomposites, Nanocomposites-GMR materials, Materials Science for Biomedical Applications.

### **Most Innovative Contribution in the Scientific Research:**

Prof. R.R. Yadav has developed the theoretical approach for calculation of temperature dependent non-linear elastic properties of cubic/ hexagonal structured intermetallics, alloys (ternary/ quaternary), nanowires and nanotubes.

Ultrasonic attenuation was modeled and implemented for different technologically important engineering material systems such as nuclear fission products, nanofluids/nanocomposites and the intermetallics emerging new physics. The work is important to extract the information about the nanostructured characteristic features, fundamental processes and the characteristic thermophysical properties of the advanced materials.

**Dr. Yadav successfully synthesized first time the nanofluiditic GMR materials developing ultrasonic based chemical method. Dr. Yadav developed the ultrasonic mechanism to predict anomalous enhancement of the temperature dependent thermal conductivity of the nanofluids and theoretically modeled the experimental results very important for coolant technology in microchannels and medical applications.**

**Dr. Yadav developed the ultrasonic spectroscopy method replacing the expensive TEM/SEM to determine the size of nanoparticles lowest up to ~ 10nm and their distribution in liquids. This method does not require any sample preparation.**

**Prof. Yadav successfully coupled the ultrasonics with the nanoscience and technology recognized as new area “Ultrasonics in Nanoparticles- Liquid Suspensions” in the field of acoustics.**

### **Research Guidance:**

Ph.D. Completed	:	<b>16</b>
Ph.D. in Progress	:	<b>6</b>
M.Phil.	:	<b>05</b>

### **Research Publications/Invited Talks:**

- **117** Research papers are published in the journals of international repute.
- **05** Research papers are communicated for publications
- **More than 100** Invited Talks in International/National conferences.

**Research Projects (Principal Investigator- Dr. R. R. Yadav):**

<b>Agency</b>	<b>Title of Project</b>	<b>Total Amount (In Rupees)</b>	<b>Period of Support</b>	<b>Status</b>
<b>U.G.C.</b> New Delhi	Ultrasonic Evaluations in Condensed Materials	40000	2002-2003 (3 yrs)	Completed
<b>DST</b> New Delhi (SP/S2/M-16/2001)	Ultrasonic Investigations in Condensed Materials	746472	2003-2006 (3 yrs)	Completed
<b>U.G.C.</b> New Delhi (32-18/2006SR)	Synthesis and Ultrasonic Characterization of New Series of Optical and GMR materials of Metal Nanoparticles embedded in Insulator Ceramics or Polymers	7 lakhs	2007-2010 (3 yrs)	Completed
<b>DST</b> New Delhi (SR/S2/ CMP-069/2006)	Synthesis and Ultrasonic Characterization of Advanced Materials	13 lakhs	2007-2010 (3 yrs)	Completed
<b>DRDO</b> New Delhi (ERIP/ER/053543/M/01)	Synthesis and Ultrasonic Characterization of Novel Short Fibres Reinforced Nanocomposites and their Applications	43.55 lakhs	2009-2012 (3 yrs)	Completed
<b>UGC</b> Under <b>CAS Program</b> (530/3/CAS/2008/(SAP-I))	Synthesis and Ultrasonic Characterization of Nanoparticles reinforced Polymer Nanocomposites and their applications	22.00 lakhs	5 years	Completed
<b>DST</b> New Delhi (SR/S2/CMP-0038/2011)	“Development and Characterization of Nanomaterials for Biomedical Applications”	22.50 Lakhs	3 years (2013-2017.)	Completed

- **Dr Yadav established the new NDE Research Lab procuring Acoustic Particle Sizer, Ultrasonic Transducer and Hot Disk Thermal Conductivity Equipments.**

## Awards/ Distinctions:

- **National Scholarship** by UP Government in 1972.
- **1st position in M.Sc. Physics** (Spectroscopy) in Allahabad University (1979).
- **Junior Research Fellowship** (1980-83) under UGC scheme for Ph.D. work.
- **Visiting Scientist Fellowship** under Visitor Program of Centre of Theoretical Studies, IIT-Kharagpur to work on Nanomaterials.
- **Honored by Vishwa Ayurved Parishad** (International Forum of Medical Sciences) in 2009 on delivering a popular lecture as a chief guest on Gold nanoparticles in Ayurvedic Sciences.
- **Swadeshi Vigyan Puruskar** (National Level Award-2001) conferred during the National Conference held at National Physical Laboratory (NPL), New Delhi-India.
- **Prayag Gaurav Samman (2010)** for the **outstanding contribution in the field of education**. The selection of Dr. R.R. Yadav for the award was made by a nine member's jury chaired by the Hon'ble Justice of Allahabad High Court.
- **Best Research Paper award (2004)** in our work by Acoustical Society of America during the National Symposium on Acoustics held at Mysore (India). The news was published in the "Journal of Acoustical Society of America" (USA).
- **Dr. M. Pancholi Award for Best Research Paper** in our work by **Ultrasonics Society of India** during the National Symposium on Ultrasonics held at Varanasi India, (2008).
- **Best Research Paper award (2010)** in our work by Acoustical Society of America during the National Symposium on Acoustics held at Rishikesh (India).
- Prestigious **M.S. Narayanan Memorial Lecture Award-2011** by Acoustical Society of India.
- Prestigious **"INSA Teacher Award-2012"** by **Indian National Science Academy, New Delhi**.
- **Member of Governing Council** – Aryabhata Research Institute of Observational Sciences (ARIES), Govt. of India, Nainital, Uttarakhand.
- **Member of governing council-** Indian Academy of Social Sciences.
- **Member of governing council-** Vikram University, Ujjain (M.P.)
- **Secretary –Materials Research Society of India (MRSI), Allahabad Chapter.**
- **Life member – The National Academy of Sciences, India (NASI), Allahabad.**
- **All India Vice-President-** Ultrasonics Society of India

- **Advisor- The National Academy of Sciences, India (NASI) – Allahabad Chapter.**
- **Fellow**-Ultrasonics Society of India.
- **Fellow** – Acoustical Society of India
- **Fellow** – Indian Academy of Social Sciences
- **Visiting Fellow – Science and Engineering Research Council (SERC), DST, New Delhi** to work at IIT-Roorkee (2007).
- **Fellow** – The Institute of Applied Science (**NGO for Rural Development & Water Management**), Allahabad on 25<sup>th</sup> March, 2008.
- Life Member- Vigyan Bharati, New Delhi.
- Life Member- Polymer Society of India.
- Life Member & Former Treasurer- International Order-Disorder System Society.
- Life Member- Academy of Microscope Science and Technology.
- Life Member- Materials Research Society of India.
- **Examiner of Ph.D. works** in different Universities like University of Hyderabad, Osmania University-Hyderabad, Rohilkhand University-Bareilly, Kanpur University, Bundelkhand University, Rashtra Sant Tukdo Ji Maharaj University-Maharashtra, Madurai Kamraj University-Madurai, Jawahar Lal Nehru University (JNU), New Delhi, Banaras Hindu University, Vikram University Ujjain, Anna University.
- Dr. R.R. Yadav has become a **Member of the Board of Studies** of the Physics Department of the following Universities:
  - o University of Allahabad
  - o Kanpur University Kanpur
  - o APS University, Rewa (M.P.)
  - o Chitrakoot Gramodaya Vishwavidyalaya Chitrakoot. Distt-Satna (M.P.)
  - o Himanchal Pradesh Central University, Dharmshala.
- Dr. Yadav is an **Expert Member of the Research Degree Committee (RDC)** of Kanpur University.
- **Subject Expert Member of U.P. Public Service Commission, Public Service Commission (Jharkhand), Public Service Commission (Chhattisgarh), Indian Institute of Information Technology- Allahabad.**
- **Dr. Yadav is one of the referees of several International Research Journals.**
- Dr. Yadav has delivered more than **100 Invited Talks** on the area of the Nondestructive characterization of the Materials including Nanomaterials in different reputed institution

like DMSRDE (National Laboratory of Defence research & Development Organization) Kanpur, Material Science Center IIT Kharagpur, National Physical Laboratory (NPL) New Delhi, Rohilkhand University Bareilly, Bundelkhand University, Cochin University of Science and Technology, K.S.R. Institute of Technology, Tiruchengode, Erode (Tamilnadu), Kathmandu- Nepal, Katholieke Universiteit- Leuven, Metz- France.

- **Member of National Advisory Committee** of An International Conference on Acoustics-2013, National Physical Laboratory, New Delhi, Nov. 10-15, 2013 (organized by India and France)
- **Organizer of Special Structured Session** on “Ultrasonics in Small Particles and their Liquid Suspensions” to be held in Nov. 10-15 Acoustics-2013.
- Dr. Yadav delivered the **Invited talk** on “Nondestructive Characterization of nanoparticles- Polymer Suspensions” in **Kathmandu (Nepal)** during May 23-25, **2008**.
- Dr. R. R. Yadav delivered a talk on “**Ultrasonic Properties of Nanoparticles-Liquid suspensions**” in the *Leuven University, Belgium*. During 13-16 April, 2007.
- Dr. Yadav **chaired the session in NANO-2005 (International Conference on Nanoscience and Technology)** at Shivakashi (Tamilnadu) India during 13-15 July, 2005.
- Dr. Yadav has been selected to be **CHAIRMAN** at the Mini-Symposium on Computational Acoustics at the **9th US National congress on Computational Mechanics** held in **San Francisco, CA (USA)** July 23-26, 2007
- **Convener- 15th National Symposium on Ultrasonics (NSU-XV)** held at Physics Department, University of Allahabad on 01-03 November 2006.
- **Convener-International Mini Workshop on Nondestructive Characterization Science** held at Physics Department, University of Allahabad, Allahabad, India on 03 Dec. 2008.
- **The Nomination** of Dr. R.R.Yadav was sent to the Council of Science and Technology, U.P. for the “**Vigyan Ratna Award- 2008**” by the competent authority.
- **Special Lecture** in NSA-2010 conference on invitation of **Acoustical Society of America-Madras India Chapter (MIRC-ASA)**.
- More than **100 National/International conferences** participated (60 National, 40 International).
- **Invited member in Kathmandu Humboldt Kolleg** held at Kathmandu, Nepal during Nov. 15 -18, 2010.

- **Chief Guest** in the “Valedictory Function” of the National Conference on Emerging Interfaces of Physics and Technology (EIPT-2011) held at School of Studies in Physics, **Vikram University, Ujjain** (M.P.) on March 30, **2011**.
- **Inaugural Lecture** as **Chief Guest** in the National Workshop on Biological Effects of Mobile Radiation in Jaipur National University, Rajasthan 31 March, 2012.
- **Convener-** Lecture Workshop on “Experimentation in Physics” in ISDC, University of Allahabad, 2012.
- **Keynote address** in the Inauguration of National workshop on Materials Characterization by Ultrasonics in Amity School of Engineering and Technology (Indraprasth University) New Delhi, 3-4 April, 2012.
- **Convener-** National workshop on- “Non-destructive Characterization Sciences” with special reference to Synthesis of Science and Spirituality on Feb. 27 2013 in Physics Department, University of Allahabad, Allahabad.
- **Co- chairman-** International Symposium on Ultrasonics- 2015 to be held at Nagpur, India.
- **Member-** Expert Committee in **UGC**, New Delhi.

### **Academic Visits of Foreign Countries:**

Prof. Yadav visited the countries –USA, Canada, Germany, France, Italy, Spain, Austria, Belgium, Sweden, Japan, Finland, Nepal and Singapore to deliver the research contributions in different international conferences.



## **Literary/Cultural achievements:**

Performed **Vocal Classical/ Semi-Classical Indian Music** in so many public programs-

- In Cultural Evening of 15<sup>th</sup> National Symposium on Ultrasonics held at Physics Department, University of Allahabad, Allahabad during 01-03 Nov.2006.
- Shri Vidya Mandir Inter College, Hamirpur (U.P.).
- KDMIPE Auditorium, Oil and Natural Gas Commission, Dehradun.
- Cultural Evening in Doiwala, Distt. Haridwar (Uttarakhand).
- Jeevandeep Ashram, Roorkee (Uttarakhand).
- Oil and Natural Gas Commission, Nazira (Assam).
- Chitrakoot, Distt. Satna (M.P.)
- Triveni Theatre, Tansen Marg, Sadbhawana Sanskritic Parishad, New Delhi (2009).
- Vivekananda Association, Gurgaon, Haryana.
- Delivered Special Invited Lecture on Science and Indian Cultural Heritage (A parallel study) during the **Foreign Students Conference** (from 20 different countries) in Rishikesh (Uttarakhand).
- Gandhi Auditorium, Bundelkhand University, Jhansi (U.P.)

## **Affiliation in Social Organizations:**

- **President-** Gramin Vikas evam Paryavaran Sansthan.
- **President-** Swami Shanti Deo Seva Mandal.
- **Former Regional Secretary-** Sanskritik Gaurav Sansthan
- **Member of the Trust-** Bundelkhand Gramoday Sansthan
- **UP State Pradhan** – Kesari Nandan Seva Sansthan.

## Names of Referees/ Collaborations

- ❖ **Prof. S.K. Joshi**- F.N.A., F.N.A.Sc., Padma Bhushan  
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- ❖ **Dr. Baldev Raj**-F.N.A., F.N.A.Sc., F.N.A.E., F.A.Sc., Padma Bhushan  
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## **LIST OF PUBLICATIONS (IN THE REFERRED JOURNALS)**

-Dr. R.R. Yadav

S.No.	Author(s)	Year	Title of the Paper	Reference
1.	S. K. Kor and <b>R. R. Yadav</b>	1982	Electron-Phonon Interaction in Tungsten	<b>J. Acoust. Soc. India</b> 10(1), (1982), 23
2.	S. K. Kor and <b>R. R. Yadav</b>	1982	Ultrasonic Attenuation in Cu-Ni Alloys	<b>Acta Physica Polonica</b> A64 (5), (1982), 529 <b>(Poland)</b>
3.	S.K.Kor and <b>R. R. Yadav</b>	1986	Akhieser Damping in KCN	<b>Indian J. pure and Appl. Phys.</b> 24 (7), (1986), 336
4.	S.K.Kor and <b>R. R. Yadav</b> and Kailash	1986	Ultrasonic Attenuation in Dielectric Crystals	<b>J.PhysSocJapan.</b> 55(1), (1986), 207-212
5.	S.K.Kor and <b>R. R. Yadav</b>	1986	Ultrasonic Attenuation in NaCl-NaBr Mixed Crystal due to Phonon-Viscosity Mechanism	<b>J. Acoust. Soc. India</b> 14(3), (1986), 29
6.	<b>R. R. Yadav</b>	1986	Ultrasonic Attenuation in CeAl <sub>3</sub>	<b>J. Phys. Soc. Japan</b> 55(2), (1986), 544-545
7.	S.K.Kor and <b>R. R. Yadav</b>	1986	Ultrasonic Attenuation due to Electron-Phonon Interaction in Palladium	<b>J. pure and Appl. Ultrasonics</b> 8(4), (1986), 90
8.	Kailash, <b>R. R. Yadav</b> and R.P.Khare	1986	Anharmonic properties of dielectric alloys	<b>J. Acoust. Soc. India</b> 14(3), (1986), 235-237
9.	S.K.Kor, <b>R. R. Yadav</b> and Kailash	1987	Damping of Acoustic Waves in Calcite Crystals	<b>J. Acoust. Soc. India</b> 15(2), (1987), 43-48
10.	<b>R. R. Yadav</b> and S.K.Kor	1989	Ultrasonics in 'Pd'	<b>J. Acoust. Soc. India</b> 17(3-4), (1989), 180
11.	Kailash, <b>R. R. Yadav</b> and K. Shankar	1989	Ultrasonic Attenuation in Dielectric Alloys	<b>J. Acoust. Soc. India</b> 17(3-4), 1989), 187-190
12.	<b>R. R. Yadav</b> and K. Shankar	1993	Orientation dependence of Ultrasonic Attenuation	<b>J. Acoust. Soc. India</b> 21(4), (1993), 250-254
13.	<b>R. R. Yadav</b> and Janmejay Singh	1998	Temperature dependence of Ultrasonic Absorption in Vitreous Silica	<b>J. Acoust. Soc. India</b> 26 (3&4), (1998), 93-96
14.	<b>R. R. Yadav</b> and Janmejay Singh	1998	Characterization of Vitreous Silica	<b>J. Acoust. Soc. India</b> 26 (3&4), (1998), 181-184
15.	<b>R. R. Yadav</b> and Devraj Singh	2000	Temperature dependence of Ultrasonic Absorption in Lanthanum Monochalcogenides	<b>J. Acoust. Soc. India</b> 28(1-4),(2000),191-198

16.	<b>R. R. Yadav</b> and Devraj Singh	2001	Behaviour of Ultrasonic Attenuation in Intermetallics	<b>INTERMETALLICS (Cambridge)</b> Vol.9 (3), (2001), 189-192
17.	<b>R. R. Yadav</b> and Devraj Singh	2001	Ultrasonic Attenuation in Lanthanum Monochalcogenides	<b>J.Phys.Soc Japan.</b> Vol.70(6), (2001), 1825-1832
18.	<b>R. R. Yadav</b> and Devraj Singh	2001	Ultrasonic Absorption at Low Temperatures	<b>J. Acoust Soc. India</b> 9(1), (2001), 220-224
19.	Devraj Singh and <b>R. R. Yadav</b>	2001	Ultrasonic Attenuation in Gadolinium Monopnictides	<b>J. Acoust. Soc. India</b> 29(1), (2001), 176-184
20.	<b>R. R. Yadav</b> , Devraj Singh, Arvind Kumar Tiwari	2002	Ultrasonic Attenuation in Semiconductors	<b>I.J. Pure &amp; Appl. Physics</b> Vol.40, (2002), pp.845-849
21.	<b>R. R. Yadav</b> , Devraj Singh and Priyanka Awasthi	2002	Effect of Composition on Ultrasonic Attenuation in Metallic alloys at room temperature	<b>J. Acoust. Soc. India</b> 30 (1-2), (2002), 64 – 67
22.	<b>R. R. Yadav</b> , Devraj Singh and Arvind Kumar Tiwari	2002	Ultrasonic Evaluation in Rare-Earth Metals	<b>J. Acoust. Soc. India</b> 30 (1-2), (2002), 59 – 63
23.	<b>R. R. Yadav</b> and Devraj Singh	2002	Acoustical Investigations on Plutonium Monochalcogenides	<b>J. Acoust. Soc. India</b> 30 (1-2), (2002), 55 – 58
24.	S. K. Kor, <b>R. R. Yadav</b> and Devraj Singh	2003	Ultrasonic studies in Surfactant Cetyl Trimethyl Ammonium Bromide (CTAB) in Non-aqueous solution of Ethylene Glycol	<b>“Molecular Crystals and Liquid Crystals” (USA)</b> Vol. 390, (2003), pp 75-81
25.	<b>R. R. Yadav</b> & Dev Raj Singh	2003	Effect of thermal conductivity on “Ultrasonic Attenuation in Praseodymium monochalcogenides”	<b>‘Acoustical Physics’ (Moscow)</b> Vol. 49(5) Sept 2003 pp 595-604
26.	Devraj Singh and <b>R. R. Yadav</b>	2003	The thermal conductivity and Ultrasonic Absorption in Dielectric Crystals	<b>J. Pure &amp; Appl. Ultrasonics</b> Vol. 25 (3), (2003), 82-87
27.	<b>R. R. Yadav</b> , A.K. Gupta and D. Singh	2003	Acoustical Properties of Rare-earth Monochalcogenides	<b>J. Acoust. Soc. India</b> Vol. 31, (2003), 300-303
28.	<b>R. R. Yadav</b> , A.K. Tiwari and D. Singh	2003	How the Ultrasonic Parameters are so sensitive to pressure	<b>J. Acoust. Soc. India</b> Vol. 31, (2003), 317-319
29.	<b>R. R. Yadav</b> and D. K. Pandey	2003	Phonon-Phonon Interaction in Low Carrier Heavy Fermion Systems	<b>J. Acoust. Soc. India</b> Vol. 31, (2003), 325-327
30.	<b>R. R. Yadav</b> and A. K. Tiwari	2003	Temperature Dependence of Ultrasonic Absorption in Ir, Rh & Mo metal	<b>J. Acoust. Soc. India</b> Vol. 31, (2003), 348-351

31.	<b>R. R. Yadav</b> , A. K. Tiwari	2004	Ultrasonic attenuation due to phonon-phonon interaction	<b>J. of Pure and Applied Ultrasonics</b> , vol-26, (2004)
32.	<b>R. R. Yadav</b> and D. K. Pandey	2004	Acoustical investigation in HCP Metals	J. Acoust. Soc. India Vol. 32 (2004) 243-248
33.	<b>R. R. Yadav</b> , A.K. Gupta and D. K. Pandey	2004	Electron-Phonon interaction in nano crystalline Fe	J. Acoust. Soc. India Vol. 32 (2004) 249-251
34.	D. Singh, <b>R. R. Yadav</b> and A. K. Gupta	2004	Acoustic Attenuation in Scandium Antimonide	J. Acoust. Soc. India Vol. 32 (2004) 252-254
35.	<b>R. R. Yadav</b> and A. K. Tiwari	2004	Concentration and temperature variation of ultrasonic properties in NaCl-NaCN mixed crystal system	J. Acoust. Soc. India Vol. 32 (2004) 274-278
36.	D. Singh and <b>R. R. Yadav</b>	2004	Ultrasonic properties of SmS	J. Acoust. Soc. India Vol. 32 (2004) 279-281
37.	<b>R. R. Yadav</b> , P. Awasthi and D. Singh	2004	Ultrasonic attenuation in Fe <sub>3</sub> O <sub>4</sub>	J. Acoust. Soc. India Vol. 32 (2004) 282-286
38.	<b>R. R. Yadav</b> , P. Awasthi and D. K. Pandey	2004	Ultrasonic properties in some metals at nanoscale	J. Acoust. Soc. India Vol. 32 (2004) 287-292
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