

## **BIO-DATA**

**Dr. V.V.S. BHASKARA RAJU** :

Scientist 'G' (Retired)

Associate Director

HOD (Rubber Tech.) & Technology Director (Q.R.S.)

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### **Experience:-**

- 1) P & T department— 05-11-1980 to 16-12-1982
- 2) NSTL DRDO- 17-12-1982 to 28-02-2019
- 3) Professor NSRIT & VIGNAN one and half years
- 4) At present working in NSTL as a IDST Professional

### **➤ Educational Qualification**

- B.E. with Distinction, Andhra University, Visakhapatnam
- M.Tech with First Class, Andhra University, Visakhapatnam
- PhD in Mechanical Engineering, Andhra University, Visakhapatnam

### **Experience:=**

#### **As a Group Head for Rubber Technology, Metrology & Metallurgy**

##### **➤ Research Experience**

- ✚ Design, Development and Indigenization of Shock and Vibration Mounts for Indian Naval Ships.
- ✚ Development of light weight and high strength Aluminum alloys for underwater weapons (Torpedo shells).
- ✚ Development of Viscoelastic Constrained Layer Damping (CLD) Materials for Marine applications.
- ✚ Development of acoustic materials for underwater weapons.
- ✚ Development of Transducers for underwater sensor array applications.
- ✚ Development of process for casting polymeric materials for Homing heads
- ✚ Development of underwater connectors.

Dr.VVSB Raju C.V.

### **Technology Director (Quality, Reliability & safety):-**

Responsible FATs, HATs for all underwater weapon project items developed and fabricated inside NSTL and outside firms.

At present looking after six projects integration works

#### **➤ Research Facilities Established**

- ✚ Universal Hardness Tester for evaluating metal hardness using Vickers, Rockwell and Brinell scales
- ✚ Optical Emission Spectrometer for Material Characterization (for Al base, Ferrous base, Titanium base & copper base metals),
- ✚ Inverted microscope for metallographic studies.
- ✚ Ultrasonic testing for polymer samples
- ✚ Dynamic Mechanical Analyzer for dynamic properties for metals & polymers.
- ✚ Multi function Rheometer for evaluating Rheological properties of Polymers.
- ✚ Universal Hardness Tester for Evaluating Hardness polymer materials.
- ✚ Calibration facilities for measuring instruments and 3D-CMM facility.

#### **➤ Administrative Experience**

- Head of the Department of Rubber Technology & Metrology
- Management Representative of NSTL Quality Management System from March 2000 to April 2018
- Chairman, Services Contracts Monitoring Committee (SCMC) for 4 years
- Chairman, Local Purchase Committee (Stores) for one year
- Chairman, Vendor Registration Committee (Stores) for one year
- Chairman, Technical Evaluation Boards
- Technology Director for Quality, Reliability & Safety for Projects

Dr.VVSB Raju C.V.

➤ **Awards**

*Technology Award for Design and Development of Low Frequency Structural Bearings for Anechoic & Reverberation Chambers, 2000.*

*Received Prestigious Agni Award for Excellence in Self Reliance (2011) in recognition of significant contribution and successful development of first indigenous heavy weight torpedo.*

*Received Scientist of the year Award for 2016 for indigenizing polymer products used in homing heads & transducers*

➤ **Courses/ Seminars/ Conferences Organized**

**Organized C.E.P. (Continued Education Program) on**

- i) Metrology & Calibration for four years due to its high response from other labs
- ii) Recent Trends in Rubber Technology two years
- iii) Heat Treatment & Mechanical Testing

**Organised National / International Conferences/ Symposia**

- i) Underwater Systems & Engineering (USE-2003)
- ii) National Conference on Condition Monitoring (NCCM-2006)
- iii) National Symposium on Acoustics (NSA-2008)
- iv) National Conference on Condition Monitoring (NCCM-2009)
- v) International Conference on Condition Monitoring (ICCM-2011)
- vi) Organizing Secretary for NCCM-2015

➤ **Invited Lectures delivered**

- i) Static and dynamic characterization of materials,
- ii) Sensor materials for underwater application,
- iii) Design of moulds & fixtures for S.V. Mounts
- iv) Smart city applications on Engineers Day-2016 at Sankethika Vidya Parishat, Visakhapatnam
- v) Composite materials evaluation at GITAM university
- vi) Composite materials & Polymer materials application ANITS & JNTU, VZM
- vii) Lecture on Product development at JNTU, Narsaraopet campus in Sep2019

Dr.VVSB Raju C.V.

➤ **Research Supervision**

- i) Guided M.Tech (Mechanical) Project Work – 12 Students( GITAM,A.U.,ANITS)
- ii) Guided M.Tech (Metallurgy) Project Work – 06 Students
- iii) Guided M.Tech (material Science & Tech ) Project Work for 02 Students of JNTU , VZM
- iv) Guided one PhD student in Mechanical Engineering of ANITS
- v) Helping NRB project handled by JNTU VZM ( Now active)

➤ **Publications**

National/ International Conferences/ Journals: About 33 papers

➤ **Membership in Professional bodies**

- Life Member of Institute of Engineers India
- Life Fellow of Condition Monitoring Society of India(CMSI)
- Life Member of Acoustic Society of India

➤ **Board of Studies member for JNTU Kakinada for Metallurgy & materials Science since 2015**