



**Prof. Dr. techn.**

**Murthy S.S.S. CHAVALI Yadav (Sri/柴梅熙)**

M.Sc. Tech., P.G.D.C.A., C. Ger. (Austria), Ph.D. Tech. (Austria),  
Post-doc. Fellow (USA, Japan, Taiwan), C. Jap. (Japan),  
M.I.L.A., M.I.F.S.A., M.E.A.C.R., M.O.S.A.,

1. **PROFESSOR** of ANALYTICAL CHEMISTRY&NANOTECHNOLOGY.
2. **RESEARCH COORDINATOR**, (Dept. S&H), Vignan University.
3. **VISITING RESEARCH PROFESSOR**, Kobe University, Hyogo, JAPAN.
4. **VISITING PROFESSOR**, Providence University, Taichung, TAIWAN.
5. **VISITING RESEARCH SCIENTIST**, NSC, TAIWAN.
6. **VISITING RESEARCH FELLOW**, European Consortium (EuC).
7. **CONSULTANT**, Industrial NanoTech R&D.
8. **EDITORIAL ADVISORY BOARD**, Science International, Dubai, UAE & BIOLIM, INDIA.
9. **EDITORIAL BOARD**, ASP (U.S.A.), DIJPh, IJNST (Chief Editor), IJAST, IJAqST, IJEnST & IJEST, New Delhi, INDIA.
10. **REVIEWER**, International Projects & Journals.
11. **ADVISOR**, (4 Engg. Coll.)
12. **CONSULTANT DIRECTOR** (3 Industries)
13. **BoS and RESEARCH PANEL MEMBER**, (10 Universities).

1. <b>Name:</b>	<b>Prof. Dr. techn. Murthy S.S.S. CHAVALI Yaadav</b>
2. <b>Date of Birth:</b>	20 <sup>th</sup> August 1971
3. <b>Age:</b>	42 Years
4. <b>Address for Communication</b>	<b>Prof Dr techn Murthy CHAVALI</b> c/o Subba Rao TADIBOYINA, Dr. NO. 20-26-136; Opp. Sri Krishna Temple, Chinaravuru, Tenali 522 201 Guntur District, AP, INDIA.

#### PRESENT POSITION (S):

<b>Professor &amp; Research Coordinator</b> (20 <sup>th</sup> Nov. 2013 – till date)	Professor of Analytical Chemistry and Nanotechnology. VFSTR University - VIGNAN University
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#### PREVIOUS POSITION (S):

<b>Senior Professor</b> (28 <sup>th</sup> Jul. 2013 – 06 <sup>th</sup> Nov. 2013)	1. Professor of Chemistry and Nanotechnology.
<b>Professor &amp; Head</b> (18 <sup>th</sup> Jun. 2010 – 28 <sup>th</sup> Jul. 2013)	2. Department of Nanotechnology, N.I. Center for Higher Education, N.I. University, Kumaracoil629 180 Tamil Nadu, INDIA. <a href="http://www.niuniv.com/nano_dept.html">http://www.niuniv.com/nano_dept.html</a>
<b>Director</b> (15 <sup>th</sup> Feb. 2011 – till date)	3. International Relations Office (IRO) – N.I. Center for Higher Education, N.I. University, Kumaracoil 629 180 Tamil Nadu, INDIA.
<b>Deputy Project Director</b> (28 <sup>th</sup> Jul. 2013 – till date)	4. NIUSAT Program – Payload

**EDUCATIONAL QUALIFICATIONS:**

S. No.	Name of the Degree	Branch/ Specialization	Year of Completion	Class	% marks Obtained	University/ Institute
1.	B.Sc.,	Chemistry (Main), Botany & Zoology (Ancillaries)	1990	First	75.60	Nagarjuna University, Guntur, INDIA.
2.	P.G.D.C.A.	Computers	1991	First	A	Osmania University, Hyderabad, INDIA.
3.	M.Sc. Tech.,	Pure Chemistry, Specialization: Environmental, Analytical Chemistry	1994	First	83.30	J.N.T. University, Hyderabad, INDIA.
4.	Certificate in GERMAN	GERMAN Language	1999	First	A	University of Vienna, AUSTRIA.
5.	Ph.D. Tech.,	Analytical Chemistry and MIR, QC Lasers	2000	First	A	Vienna University of Technology, Vienna, AUSTRIA.
6.	Certificate in JAPANESE	Japanese Language	2002	First	A	Kobe University, JAPAN.
7.	PDF – JAPAN	Analytical Chemistry and NIR, QC Lasers	2002	Not applicable		Center for Instrumental Analysis, Kobe University, Kobe, JAPAN.
8.	PDF – JAPAN	Electro-Analytical Chemistry	2003	6 Months only		Yamaguchi University, Ube, Yamaguchi, JAPAN.
9.	PDF – TAIWAN	Bio Analytical Chemistry	2003	Total of 6 Months		National Science Council, Hsinchu, TAIWAN.
10.	Certificate in CHINESE	Mandarin Language	2003	Basic Course		National Science Council, Hsinchu, TAIWAN.

**WORK EXPERIENCE:****Research Experience:****19 years****1994-to date**

S. No.	Position held	Name of the employer	From	To
1.	a. <b>PROFESSOR &amp; HEAD</b> , Department of Nanotechnology	N.I. Center for Higher Education, (N.I. University) INDIA	18 <sup>th</sup> Jun. 2010	28 <sup>th</sup> Jul. 2013
	b. <b>DIRECTOR</b> , International Relations Office (IRO)		15 <sup>th</sup> Feb. 2011	
	c. <b>CHAIRMAN</b> , Board of Studies (BoS) in Nanotechnology		18 <sup>th</sup> Jun. 2010	
	d. Member, Doctoral Committee		18 <sup>th</sup> Jun. 2010	
2.	a. <b>ASSOCIATE PROFESSOR</b> of Analytical Chemistry	VIT University, INDIA	01 <sup>st</sup> Jan. 2009	11 <sup>th</sup> Jun. 2010
	b. <b>Deputy Director</b> (Selected as)		6 <sup>th</sup> Dec. 2007	
	<b>International Relations Office (IRO) – VIT</b>		10 <sup>th</sup> Jun. 2009	

	University, INDIA c. M.Sc. <b>Projects Coordinator</b> for Chemistry (Inorganic/Organic/ Analytical) d. <b>Member</b> , Committee for selection of Research Students (M.Phil./Ph.D.) and Doctoral Committee		10 <sup>th</sup> Jun. 2009	
3.	a. <b>ASSISTANT PROFESSOR</b> of Analytical Chemistry b. <b>International Relations Office (IRO)</b> – VIT University, INDIA. c. <b>Placement &amp; Training (PAT) Officer</b> In-Charge, CHEMISTRY.	VIT University, INDIA	17 <sup>th</sup> Oct. 2007 6 <sup>th</sup> Dec. 2007 08 <sup>th</sup> Jun. 2008	31 <sup>st</sup> Dec. 2008 31 <sup>st</sup> Dec. 2008 10 <sup>th</sup> Jun. 2009
4.	<b>CONSULTANT</b> , R&D for Industrial Nanotechnology	INDUSTRY OF TAIWAN/ UNIVERSITY	03 <sup>rd</sup> Nov. 2004	Till date
5.	a. <b>DIRECTOR</b> (R&D – Academic and Sponsored) & for Analytical Techniques and Nanotechnology b. <b>ASSOCIATE PROFESSOR</b> of Analytical Chemistry (Temporary Adjunct Position) c. Appointed as <b>PROFESSOR</b>	TAIWAN	01 <sup>st</sup> Nov. 2006 -do- 28 <sup>th</sup> Sep. 2007	28 <sup>th</sup> Sep. 2007 -do- ---
6.	<b>SENIOR RESEARCHER &amp; ASSISTANT DIRECTOR (I/C)</b> , International Relations	Chemical Measurement Laboratory, TAIWAN	03 <sup>rd</sup> Nov. 2003	31 <sup>st</sup> Oct. 2006
7.	<b>PDF; Research topic:</b> Development of Micro Total Analytical System ( $\mu$ -TAS) based Biosensor (Microfluidic Electrophoretic Chip) for biomedical/ MEMS application - BioMEMS.	Nano Tech Division, National Science Council, TAIWAN	05 <sup>th</sup> May 2003	31 <sup>st</sup> Oct. 2003
8.	<b>PDF; Research topic:</b> Sensors based on Conducting Polymers/ Molecular Imprinted Polymers for the detection of Cholesterol.	Yamaguchi University, Ube, Yamaguchi, JAPAN	01 <sup>st</sup> Nov. 2002	30 <sup>th</sup> Apr. 2003
9.	<b>PDF; Research topic:</b> Development of Near Infra Red [NIR] DFB laser sensor system for in situ detection of temperature, combustion gases and water vapor in automobile engines.	Kobe University, JAPAN	01 <sup>st</sup> Nov. 2000	31 <sup>st</sup> Oct. 2002
10.	Research Assistant	Institute for Analytical Chemistry, Vienna University of Technology, AUSTRIA.	18 <sup>th</sup> May 1998	31 <sup>st</sup> Oct. 2000
11.	Lecturer	P.G.D.E.M. for J.N.T. University, INDIA.	01 <sup>st</sup> Aug. 1997	30 <sup>th</sup> Apr. 1998
12.	Senior Research Assistant	J.N.T. University, INDIA.	04 <sup>th</sup> Aug. 1995	31 <sup>st</sup> Mar. 1998
13.	Junior Research Assistant	J.N.T. University, INDIA.	04 <sup>th</sup> Aug. 1994	03 <sup>rd</sup> Aug. 1995

**Teaching Experience:****23 years 1990-to date**

1990 – 1992	B.Sc.	Chemistry – Theory	2 years [India]
1992 – 1995	M. Tech. (Water Resources Engg.); M.Sc. Tech., M.Sc.	Analytical and Environmental Chemistry – Theory and Laboratory	3 years [India]
1995 – 1998	Diploma in Environmental Management (P.G.D.E.M.)	Analytical and Environmental Chemistry - Theory and Laboratory	3 years [India]
1998 – 2000	M.S.	Chemistry Laboratory	2 years [Austria]
2000 – 2002	M. Tech. - Mechanical Engineering	Combustion and Laser Diagnostics; Sensors - Chemical/Physical/Biological, Conducting Polymers & Sensor Materials, Chemical Aspects - Theory & Laboratory	2 years [Japan]
2002 – 2003	M.S., Ph.D. Tech.,	Chemical Synthesis Laboratory	1 year [Taiwan]
2003 – 2006	M.S., Ph.D. Tech.,	Civil, Mechanical Engineering - SENSORS	3 years [Taiwan]
2006 - 2007	M.S., M.Tech., Ph.D. Tech., PDF,	Wireless Sensors, Civil Engg., Mechanical Engg.; SENSORS – Micro and Nano for Chemical/Physical/Biological applications, Conducting Polymers & Sensor Materials,	1 year [Taiwan]
2007 – 2010	M.S., M.Sc., Ph.D., B. Tech., B.Sc., B.C.A.,	Analytical Spectroscopy, Laser Spectroscopy, Lithography Techniques, MEMS, BioMEMS/NEMS, Nanotechnology, Photonics/ BioPhotonics, Chemistry Laboratory and Analytical & Environmental Chemistry	3 years [India]
2010 – till date	M. Tech., Ph.D.,	Analytical Spectroscopy, Laser Spectroscopy, Nanotechnology, Photonics/BioPhotonics, Chemistry Laboratory and Analytical Chemistry, Environmental Chemistry, Nanotechnology.	~ 2 year [India]

**TOTAL EXPERIENCE:**

S. No.	TOTAL EXPERIENCE	Years
1.	Total Teaching Exp. (as Prof.[1] as Assoc. Prof. [2])	23 Yrs [1990 – 2013]; UG and PG
2.	Total International Relations Exp. (as Asst. Dir./Dir. I/c)	10 Yrs [2003 –2012]
3.	Total International Research Exp. (as Prof.[1], as Director [5])	14 Yrs [1998 – 2012]
4.	Total Experience in Consultancy	14 Yrs [1998 – 2012]
5.	Total no. of Technical Visits (Visited/Organized)	126
6.	Total no. of Scholarships	31 (CW, EU, OAD, JSPS, VBL, AVH, NSF, NSC, VLIR, etc.)

7.	Total no. of <b>Fellowships/Awards/Academic Distinctions</b>	<b>109</b>
8.	Total no. of <b>Research Grants</b> (as Scholarships/Grants)	<b>17</b>
9.	Total no. of <b>Research Developments</b> (Major)	<b>17</b>
10.	Total <b>Publications</b> (Including Submitted)	<b>~421</b> (Journals/Conferences/Workshops/Seminars/Posters/Invited Lectures/Books/Patents)
11.	Total no. of <b>Students</b> (Supervised/Guiding)	<b>~96/14</b> [PDF/PhD/MPhil/MS/MSc/MTech/BTech]
12.	Total no. of <b>Patents</b> (Including applied)	<b>4</b>
13.	Total no. of <b>International Visits</b>	<b>~62</b> [Approximately to <b>28</b> Countries]
14.	Total no. of <b>International Exchange Visits</b> (Students & Faculty)	<b>~13</b> [from 2007- 2008-2009; 3+2+5]
15.	Total no. of <b>Memberships</b> (Both International and National)	<b>123</b> [Scientific and Non Scientific]
16.	Total <b>International MoU's</b> Signed (Academic/Industrial)	<b>19</b> [2 from NIU; 4 from VIT; 4 in progress]
17.	Total no. of <b>Collaborations</b> (Including under process)	<b>~46</b> [Both National and International]

**TECHNICAL VISITS** **126** (Invited, Organized & Visited)

**TRAINING PROGRAMMES/WORKSHOPS:** **46**

National 11 (Organized: 03)  
International 35 (Organized: 09)

**WEB EVENTS/SEMINARS/TUTORIALS** **25**

**CONFERENCES/SEMINARS/SYMPOSIA:** **78**

Conferences/Meetings/Seminars/Fora/Open Discussions/Tradeshows - [Scientific and Non-Scientific]  
Organized (as a Member) 12  
Participated 48

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National 18 (Attended: 13 & Organized: 05)  
International 42 (Attended: 34 & Organized: 08)

**IMPORTANT MEMBERSHIPS:** **123**

Life Member/Member in various Societies/ Organizations/ Networks/ Communities/ Special Interest Groups, both at International and National levels. A few are mentioned under,

1. Indian Laser Association (I.L.A.), (Life Member-576), INDIA.
2. International Frequency Sensor Association (I.F.S.A.), (Affiliation Number: 20082612-001/20081226-001), Ontario, CANADA.
3. American Institute of Aeronautics and Astronautics (A.I.A.A.), U.S.A.
4. Indian Society for Analytical Scientists (I.S.A.S.), INDIA.
5. The International Society for Optical Engineering (S.P.I.E.), U.S.A.

6. European Association for Cancer Research (E.A.C.R.), (EACR13027), NORWAY.
7. Indian Science Congress (I.S.C.), INDIA.
8. Editorial Board Memberships [*Journal(s)*]
  - a. **Asia Pacific Nanotechnology Forum News Journal [APNF]**
    - i. *Regional Coordinator – Asia Pacific Region*
    - ii. *Regional Editor – Asia Pacific Region*
  - b. **Editorial Member**, Nova Science Publishers, USA
  - c. **Member**, The Science Advisory Board (SAB), VA, U.S.A.
  - d. **Member**, Research Board of Advisors, American Biographical Institute (ABI) Inc., U.S.A.
  - e. Participated as **Member** in a session on NASA-AIAA Computational Fluid Dynamics (CFD), AIAA 2001-0926\_39<sup>th</sup> AIAA Aerospace Sciences Meeting (Conference) & Exhibit, 8<sup>th</sup> – 11<sup>th</sup> January, 2001, Reno, Nevada (NV), U.S.A.

<b>Major Honors:</b>	<b>56</b>	<b>Selective list from 2007-2012</b>
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1. 2012 **International Travel Grant** (Twice to Taiwan).
2. 2011 **International Travel Grant** (Twice to Taiwan).
3. 2010 **International Travel Grant** (Twice to Taiwan).
4. 2009 **Indo-Taiwan** Inter governmental fund (International Research Project Grant) for collaborative research (DST International and NSC for VITU and PU) for three years.
5. 2009 **Indo-Taiwan** International Research Collaboration (BioMedical).
6. 2009 **INTERNATIONAL TRAVEL GRANT FELLOWSHIP** to Taiwan R.O.C.
7. 2009 Selected for First **Young Indian Scientists Colloquium, YISC2009**
8. 2009 **Visiting Professor**, Providence University, Taichung, TAIWAN.
9. 2009 **International Travel Grant** (Twice to Taiwan).
10. 2009 **Member**, Sensors & Transducers Journal, IFSA (S&T e-Digest), Barcelona, SPAIN.
11. 2009 **Member**, The Science Advisory Board (SAB), Arlington, VA, U.S.A.
12. 2009 **Associate Professorship**, VIT University, Vellore 632 014, India.
13. 2008 **Editorial Member**, Nova Science Publishers, U.S.A.
14. 2008 **INTERNATIONAL TRAVEL GRANT FELLOWSHIP** to Taiwan R.O.C.
15. 2008 **Member**, National Initiative for Undergraduate Science, Tata Institute of Fundamental Research (TIFR), Mumbai, Government of India.
16. 2008 DST (Fast Track) **Young Scientist** Award.
17. 2007 **INTERNATIONAL TRAVEL GRANT FELLOWSHIP** to Taiwan R.O.C.
18. 2007 **Visiting Research Scientist**, NSC, TAIWAN.
19. 2007 **Assistant Professorship**, VIT University, Vellore 632 014, India.
20. 2007 **Associate Professorship**, Taichung, Taiwan, R.O.C.
21. 2006 **Industrial Project** from Conventional Instrument Technology Development (CITD), Taiwan Industrial Development Bureau (TIDB), Taiwan R.O.C.

<b>FELLOWSHIPS/AWARDS/ACADEMIC DISTINCTIONS:</b>	<b>109</b>
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<b>R&amp;D PROJECTS:</b>	<b>Completed 42</b> Mainly International
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**FROM INDIA**

S. No.	Title of the Project	Funding Agency	Amount (Rs. Lakhs)	PI	Co_PI	Years/ Status
1	Detection of ammonia in the environment by using SWCNT/S-PANI composite thin film sensor	UGC <b>Collaboration</b>	9.73	Prof. Khagga Mukkanti	Prof. Dr. techn. Murthy CHAVALI	3 Yrs/ <b>Completed</b> Jan 2008 to Jan 2011
2	Development of wearable multi analyte chip based gas sensor for trace monitoring of 'CO' and 'NO <sub>2</sub> ' at room temperature using nano Cobalt oxides (Co <sub>3</sub> O <sub>4</sub> or CoOOH) doped with carbon nanotubes, SnO <sub>2</sub> and WO <sub>3</sub>	DST-Fast Track Young Scientist Award	19.20	Prof. Dr. techn. Murthy CHAVALI	-	3 Yrs/ <b>Ongoing</b> July 2008 to July 2011
3	BioMedical sensors for volatile anesthetic agents	<b>International Collaboration</b>	34.00	Prof. Wu Ren-Jang (Taiwan)	Prof. Dr. techn. Murthy CHAVALI (India)	3 Yrs/ <b>Completed</b> July 2008 to July 2011
4	Development of novel 'NO' sensor using optimized nanocomposite material, WO <sub>3</sub> /SnO <sub>2</sub> doped with CNTs (SWCNTs/ MWCNTs) – An application of CHEMICAL, BIOLOGICAL and BIOMEDICAL significance.	DST International (Indo-Taiwan Project)	36.00	Prof. Dr. techn. Murthy CHAVALI (India)	Prof. Wu Ren-Jang (Taiwan)	3 Yrs <b>Completed</b> 15 March 2009 to 30 April 2012
5	Chemical synthesis of Cobalt and Cobalt Oxide nanoparticles and its investigative studies towards application in chemical [catalysis, defence, nano-hybrid materials and devices] biological and opto-electronic devices	DRDO-EMR	14.78	Prof. Khagga Mukkanti	Prof. Dr. techn. Murthy CHAVALI	2 Yrs <b>Ongoing</b> June 2010 to December 2012

**TOTAL (INR) 113.71 Lakhs**

**LIST OF ONGOING PROJECTS**

<b>1</b>	Development of an Industrial Process for the Production of photovoltaic grade tri-chloro Silane from agricultural waste (Rice husk)	DST-SERI	142.45	Prof. P. Venugopalan Prof. Dr. techn. Murthy CHAVALI	3 Yrs July 2012 to July 2015
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**TOTAL (INR)**          **176.43 Lakhs**

**PUBLICATIONS:**

**INCOMPLETE LIST**

S. No.	Type		Total
I.	Journals		117
	Communiqués		27
II.	Conferences Proc./Symposia/ Workshops		133
III.	Posters		34
IV.	Research reports		86
V.	Lectures/ Talks	a. Invited b. General	151
VI.	Books/Chapters/Monographs		07
VII.	PATENTS		02
<b>TOTAL =</b>			<b>557</b>

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