

**Amardeep T. Shende, M.Sc., GATE, Ph.D.**

Assistant Professor in Physics,

Department of Physics

Dr. S.D.D. Arts College & Commerce & Science College, Wada,

(Affiliated to University of Mumbai)

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**Summary:** Assistant Professor in Physics at Dr. S.D.D. Arts College & Commerce & Science College, Wada, Dist. Palghar (MS) INDIA (since 01-10-2015)

**Ex-Head & Assistant Professor in Engineering Physics at Jagadambha College of Engineering & Technology, Yavatmal, (MS) INDIA (01-06-2010 - 30-09-2015)**

**Ex-Incharge of B.E. First Year at Jagadambha College of Engineering and Technology, Yavatmal, (MS) INDIA (01-07-2011 - 30-09-2015)**

**Ph.D. (Physics) - Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur, (MS) INDIA (15-07-2006 - 01-10-2012)**

**Personal Information:**

Full Name:	Amardeep Tulshiram Shende
Date of Birth:	10 <sup>th</sup> April, 1979
Nationality:	Indian
Sex:	Male
Marital Status:	Married
Language Known	Marathi, Hindi, English

**Academic Background:**

Qualification	Institute	Year
Ph.D. (Physics)	Govt. Institute of Science, Nagpur Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur	October 2012
GATE 2003	IIT Madras, Chennai	March 2003
M.Sc. (Physics)	Govt. Institute of Science, Nagpur Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur	July 2003
B.Sc. (PCM)	Janta Mahavidyalaya, Chandrapur, Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur	June 2001
H.S.S.C.	Nagpur Divisional Board	March 1998
S.S.C.	CBSE, Delhi	June 1996

### **Research Field:**

Ultrasound, Molecular Interactions, Bio Materials, Density functional theory

### **Research Index:**

❖ **Google Scholar**

*h-index = 3*

*i10-index = 0*

### **Awards /Achievements**

- ❖ **Best Paper Award for Smart& Novel Materials, Ultrasonic Characterization track,** for the paper titled “Aqueous L-Alanine Molecular Interaction from Gibb's free energy: CPCM and SMD in DFT and ultrasonic studies” at International Conference on Research Frontiers in Sciences(ICRFS-2021), Department of Basic Sciences G.H. Rasoni College of Engineering, Nagpur (India) in association with Scopus indexed International Journal “ IOP Conference Series:Material Science and Engineering” (ISSN:1757-899X),5<sup>th</sup> and 6<sup>th</sup> February 2021.
- ❖ **Young Scientist Award** in the field of Science & Technology for the paper titled “Molecular Interaction through Free Volume and Internal Pressure of aqueous Amino acids at 308.15K”at 1<sup>st</sup> International Congress on Science & Technology for Society with a theme: Sustainable Biodiversity Conservation through Technological and Social Approaches held on 23<sup>rd</sup>, 24<sup>th</sup>& 25<sup>th</sup>May, 2014 at Hotel Bangkok Palace, Bangkok, Thailand.
- ❖ **25 Research publications** in reputed journals/ Conference proceeding as author and co-author *under*research area like Science, Engineering & Social field
- ❖ **1 Text Book** as co-author titled “**ENGINEERING PHYSICS**” for B.E. First Year as per prescribed syllabus of S.G.B. Amravati University under Himalaya Publishing House,ISBN:978-93-5097-867-2
- ❖ **Recognition as a PG teacher** to guide students for the M.Sc. degree in the subject Physics (By Papers) of University of Mumbai w.e.f. 03-07-2019.
- ❖ **Recognition as a teacher to guide students for Ph.D. degree** in the subject Physics of University of Mumbai w.e.f. 05-07-2022 through Department of Physics Lokmanya Tilak Bhavan, Vidyanageri, Santacruz(E), Mumbai.
- ❖ **Doctor of Philosophy (Ph. D.) Degree in Physics** fromInstitute of Science, Nagpur, Rashtrasantukdoji Maharaj Nagpur University, Nagpur (01-10-2012).
- ❖ **Graduate Aptitude Test in Engineering Exam (GATE) :March, 2003**

## **Experiences**

- ❖ **Working as Assistant Professor**, Department of Physics, Dr. Shantilal Dhanaji Devsey College of Arts College and Commerce & Science College Wada, Dist: Palghar- 421303(MS), India (since 1<sup>st</sup> October 2015 to till)
- ❖ **Ex-Head & Assistant Professor**, Department of Engineering Physics, Jagadambha College of Engineering & Technology, Yavatmal (MS), India. (1<sup>st</sup> June 2010 to 30<sup>th</sup> September 2015)
- ❖ **Ex-First Year Incharge**, Jagadambha College of Engineering & Technology, Yavatmal (MS), India. (1<sup>st</sup> June 2011 to 30<sup>th</sup> September 2015)
- ❖ **Ex-Lecturer**, Department of Applied Physics in Umrer College of Engg. Umrer (MS), India (26<sup>th</sup> November 2007 to 31<sup>st</sup> March 2010)
- ❖ **Ex-Lecturer**, Applied physics, Priyadarshini Polytechnic, Nagpur (MS), India (17<sup>th</sup> September 2004 to 30<sup>th</sup> June 2006)
- ❖ **Ex-Lecturer**, Department of Physics, Ranibai Agnihotri Institute of Computer Science and Information Technology, Wardha (MS), India (1<sup>st</sup> November 2003- 31<sup>st</sup> January 2004).
- ❖ **As a Ph.D. Research Scholar**: Area of work was to study molecular interactions in aqueous biologically active material like Amino acids using ultrasound and published 8 research papers on this work. (15<sup>th</sup> July 2006 to 1<sup>st</sup> October 2012)

**Title of Thesis:** Study of Molecular Interactions in Some Aqueous Biologically Active Sample

**Research Guide:** Professor Dr. Vilas A. Tabhane ,

Ex- Distinguish Professor, Dept. of Physics, University of Pune, Pune, Maharashtra, India

Ex-Director, Govt. Institute of Science, Mumbai, Maharashtra, India

Ex-Professor & Head, Department of Physics, Govt. Institute of Science, Mumbai, Maharashtra, India

Ex-Director, Govt. Institute of Science, Nagpur, Maharashtra, India

Ex-Professor & Head, Department of Physics, Govt. Institute of Science, Nagpur, Maharashtra, India

- ❖ **Ex-Director of Business Organization**' under JCI, Nagpur Kalamana City, India (2010-2011)
- ❖ **Ex-Executive Member**, Physics Society, Govt. Institute of Science, Nagpur (MS), India (2001-2002)

### **Scientific, Academic and curricular events organized: Positions held**

- ❖ **Technical Coordinator** , One Week Online National Faculty Development Program (FDP) / Ph.D. Course work on **“Research Ethics and the Magic of Statistics”** from **20<sup>th</sup> August 2023 to 26<sup>th</sup> August 2023** organized by **Department of Commerce & IQAC** under the aegis of Department of Commerce, University of Mumbai
- ❖ **Resource Person**, Online one month Certificate Course in **LaTex** (programming Certificate Course), organized by **PadmashriAnnasaheb Jadhav Bhartiya Samaj Unnati Mandal's B.N.N. College, Bhwandi, MS (India)** from **1<sup>st</sup> February to 28<sup>th</sup> February 2022**.
- ❖ **Resource Person** for Lecture on **“Research Methodology for beginners”** at One Week Online National Workshop **“Research Methodology”** for P.G. Student and Research Scholar Organized by Department of Physics and Chemistry in Collaboration with Internal Quality Assurance Cell (IQAC), **Rashtrapita Mahatma Gandhi Arts, Commerce and Science College, Saoli, Dist. – Chandrapur, MS (India)** on **3<sup>rd</sup> March 2022**
- ❖ **Coordinator**, Online one month Certificate Course in **LaTex** (programming Certificate Course) using Google Meet Platform organized by **Dr. Shantilal Dhanji Devsey Arts College and Commerce and Science College, Wada, Dist. Palghar (India)** from **1<sup>st</sup> February to 28<sup>th</sup> February 2022**
- ❖ **Coordinator**, Webinar on **“Intellectual Property Rights with a theme “Why and How to file a Patent?”** organized by Internal Quality Assurance Cell (IQAC), **Dr. Shantilal Dhanji Devsey Arts College and Commerce and Science College, Wada, Dist. Palghar (India)** on **27<sup>th</sup> October 2022**.
- ❖ **Co-coordinator**, **“IPR AWARENESS PROGRAM”** under National Intellectual Property Awareness Mission (NIPAM) on the occasion of **“National Science Day”** Organized by Research Committee, Science Forum and IQAC, **Dr. Shantilal Dhanji Devsey Arts College and Commerce and Science College, Wada, Dist. Palghar (India)** in collaboration with Indian Patent Office, Mumbai on **28<sup>th</sup> February 2022**.
- ❖ **Coordinator**, One day Online National Conference on **“Importance of Commerce Education”** Organized by Department of Commerce in association with Internal Quality Assurance Cell (IQAC), **Dr. Shantilal Dhanji Devsey Arts College and Commerce and Science College, Wada, on 30<sup>th</sup> November 2021**
- ❖ **Coordinator**, Webinar on **Intellectual Property Rights “Why & How to file Patent”** at **Dr S. D. D. Arts College and Commerce and Science College, Wada, MS, India** on **27<sup>th</sup> October 2021**.
- ❖ **Coordinator**, Webinar on **Intellectual Property Rights “Why IPR”** at **Dr S. D. D. Arts College and Commerce and Science College, Wada, MS, India** on **8<sup>th</sup> August 2020**.

- ❖ **Committee member for Research paper/poster for One Day National Conference on “Recent Trends and Developments in Environmental and Basic Sciences (RTDEBS 2018)” at Dr S. D. D. Arts College and Commerce and Science College, Wada, MS, India on 10<sup>th</sup> March 2018**
- ❖ **Organizing Secretary for an ISTE & CSI sponsored “National Level Technical Event “X-PLORE-13” at Jagadambha College of Engineering & Technology, Yavatmal(MS), India on 15<sup>th</sup>& 16<sup>th</sup> March, 2013**
- ❖ **Rapporteur for the Technical Session Home Science & Social Science ,2<sup>nd</sup> International Congress on Science & Technology for Society with a theme : Conservation of Environmental by Advanced Technologies through Social Approaches for Sustainable Development at Hotel Galadari , Colombo, (Srilanka)19<sup>th</sup> ,20<sup>th</sup>& 21<sup>th</sup> May ,2015**

#### **Extra- curricular activities: Positions held**

- ❖ **Active Chairman I.T. Cell at Dr S. D. D. Arts College and Commerce and Science College, Wada, MS, India Since 2018 to till.**
- ❖ **Active Coordinator, Criteria 4, Infrastructure and Learning Resources for NAAC.**
- ❖ **Active Convener, B.C. Book Bank Scheme for SC/ST/DT/NT students, Department of Students’ Development, University of Mumbai**
- ❖ **Co-coordinate in the Seven Day N.S.S. Residential Camp at Malwada School, organized by Dr. S.D.D. Arts College & Commerce& Science College, Wada from 1st January 2016 to 7<sup>th</sup> January 2016.**
- ❖ **Co-coordinate of Department of Lifelong Learning and Extension (DLLE) at Dr. S.D.D. Arts College & Commerce& Science College, Wada (2017-18)**
- ❖ **Ex-Incharge, Annual Social Gathering Wings 2013 & Wings 2014 at Jagadambha College of Engineering & Technology, Yavatmal (MS), India.**

#### **Overseas visit**

- ❖ **Bangkok, Thailand, 22<sup>nd</sup> to 26<sup>th</sup> May,2014**
- ❖ **Colombo, Srilanka, 19<sup>th</sup> to 26<sup>th</sup> May,2015**

### **Faculty Development Programme (FDP) attended**

- ❖ **Refresher Course on Physics, Human Resource Development Centre Pandit Ravishankar Shukla University, Raipur, CG India 12<sup>th</sup> December 2022 to 26<sup>th</sup> December 2022.**
- ❖ **Sensitization on Innovation & Cutting Edge Technologies, Vishwakarma University, Pune, 27<sup>th</sup> June 2022 to 1<sup>st</sup> July 2022**
- ❖ **Refresher Course on Physics, Human Resource Development Centre, University of Mumbai, MS, India 9<sup>th</sup> December 2022 to 22<sup>nd</sup> December 2022.**
- ❖ **Three Days Faculty Development Program (FDP) on “Microsoft Team” Internal Quality Assurance Cell (IQAC) Dr. Shantilal Dhanji Devsey Arts College and Commerce and Science College, Wada, Dist Palghar (India), 3<sup>rd</sup> September 2020 to 10<sup>th</sup> September 2020**
- ❖ **Refresher Course on Physics, Human Resource Development Centre, Himachal Pradesh University Shimla, HP India 11<sup>th</sup> March 2019 to 30<sup>th</sup> March 2019**
- ❖ **Orientation course (Quality of Higher education Extension Method), Human Resource Development Centre Pandit Ravishankar Shukla University, Raipur, CG India 19<sup>th</sup> April 2017 to 16<sup>th</sup> May 2017**

### **Publications**

#### **Publications as Book**

- ❖ **Text Book entitles “ENGINEERING PHYSICS” for B.E. First Year as per prescribed syllabus of S.G.B. Amravati University under Himalaya Publishing House, ISBN:978-93-5097-867-2**
- ❖ **Journal Issues Book entitle “National Conference on Recent Trends and Developments in Environmental and Basic Sciences (RTDEBS-2018), Volume-4, Issue-4, March–April 2018, Technoscience Academy, ISBN: 978-81-936312-1-8**

#### **Publication in National and International Journal:**

- ❖ **Zwitterion to normal formation of L-Alanine in water solvation as an ultrasonic impact from their Gibbs energy barrier: Experiment with different molarities and DFT simulation for few basis sets; N.T. Tayade, A.T. Shende, M.P. Tirpude; Ultrasonic (Elsevier) (Scopus, SCI, UGC-Care) 0041-624X, 17<sup>th</sup> September 2022**  
<https://doi.org/10.1016/j.ultras.2022.106847>

❖ **Research paper entitle “Aqueous L-alanine molecular interaction from Gibb’s free energy: CPCM and SMD in DFT and ultrasonic studies;A.T. Shende, N.T. Tayade. M.P. Tirpude; Journal of Physics: Conference Series; IOP Publication; (Peer Reviewed) (Scopus, SCI,UGC-Care ) ISSN: 1742-6596; June2021**

[doi:10.1088/1742-6596/1913/1/012007](https://doi.org/10.1088/1742-6596/1913/1/012007)

❖ **Research paper entitle “Dissociation of ZnO ring from Zn<sub>3</sub>O<sub>3</sub> cluster by CASSCF”; Nishant T. Tayade, SagarMane,Amardeep T. Shende, Manish P. Tipude, Jae Cheol Shin; Chemical Physics(online) (Elsevier) (Scopus, SCI,UGC-Care ) ; ISSN: 0301-0104; 9<sup>th</sup> December, 2020**

<https://doi.org/10.1016/j.chemphys.2020.111077>

❖ **Research paper entitle “ Physico Chemical Characteristics of Ground Water Sample of Wada in Palghar District”; N.K. Halikar A.T. Shende M.M. Patil S.P. Vartale; Aarhat Multidisciplinary International Education Research Journal (AMIERJ); Volume VIII, Special issue XXIII(IF: 2.125), December-2019, pp. 688-690**

❖ **Research paper entitle “Sustainable Potential of Geothermal Exploration at Palghar District- A case study”; A.T. Shende, N.D. Chinchkhede, N.K. Halikar; ‘Research Journey’ International Multidisciplinary E-Research Journal; Special Issue-201(A), ISSN: 2348-7143; (IF:6.625) pp.96-99; October2019**

❖ **Research paper entitle“DFT study of L-alanine’s Crystal, Molecule and Three Linear Molecules for Optoelectronic Behavior”; N.T. Tayade, A.T. Shende, M.P. Tirpude; International Journal of Scientific Research in Physics and Applied Science Vol.6, Issue 4, E-ISSN: 2348-3423; (IF:1.320) pp.23-27; August 2018**

[doi.org/10.26438/ijsrpas/v6i4.2327](https://doi.org/10.26438/ijsrpas/v6i4.2327)

❖ **Research paper entitle“Ultrasonic Investigation of Aqueous L-Alanine”; A.T. Shende, N.D. Chinchkhede, V.A. Tabhane; International Journal of Scientific Research in Science and Technology © 2018 IJSRST | Volume 4 | Issue 3 | Print ISSN: 2395-6011 | Online ISSN: 2395-602X; (IF:5.327)pp.65-69; March 2018**

❖ **Research paper entitle“Structural Relaxation of L-Alanine Molecule with Water Molecules and its Electrons Density of States by Dft”; N.T. Tayade, A.T. Shende, M.P. Tirpude; International Journal of Scientific Research in Science and Technology © 2018 IJSRST | Volume 4 | Issue 3 | Print ISSN: 2395-6011 | Online ISSN: 2395-602X; (IF:5.327)pp.57-61; March 2018**

❖ **Research paper entitle“Synthesis of Ag-ZnO by Seed Mediated Hydrothermal Method and Its Characterization”; S.S. Malvankar,A.T. Shende; International Journal of Scientific Research in Science and Technology © 2018 IJSRST | Volume 4 | Issue 3 | Print ISSN: 2395-6011 | Online ISSN: 2395-602X; (IF:5.327)pp.120-126; March 2018**

❖ **Research paper entitle “Automated Guided Vehicle as an Office Boy”;** N.D. Chinchkhede, A.T. Shende ; *International Journal of Scientific Research in Science and Technology* © 2018 IJSRST | Volume 4 | Issue 3 | Print ISSN: 2395-6011 | Online ISSN: 2395-602X; (IF:5.327)pp.18-21; March 2018

❖ **Research paper entitle “Structural Characterization of Aqueous amino acids through Adiabatic compressibility measurement at 308.15K”;** A.T. Shende; *International Journal of Researches in Biosciences, Agriculture & Technology (IJRBAT)*, Volume-II, Issue 3, ISSN: 2347-517x(IF: 4.935); pp270-273, May 2015

❖ **Research paper entitle“Prediction of internal pressure and surface tension and their correlation with molecular interaction in aqueous amino acids”;** A.T. Shende ,P.V. Tabhane. O.P. Chimankar, V.A. Tabhane, *International Journal of Science and Research (IJSR)*; ISSN: 2319-7064; (IF:4.438)pp.32-34; January 2015

❖ **Research paper entitle “Molecular Interaction through Free Volume and Internal Pressure of aqueous Amino acids at 308.15K”;** Amardeep.T. Shende , Hemant M. Baradkar and Vilas A. Tabhane, *International Journal of Researches in Biosciences, Agriculture & Technology (IJRBAT)*; ISSN: 2347-517x; Volume-II, Issue 2; (IF:4.935)pp.506-519; May 2014

❖ **Research paper entitle “Temperature dependent Dynamic (Absolute) viscosity of Oil”;** J.N. Angaitkar, Dr. A.T. Shende *International Journal of Engineering and Innovative Technology (IJEIT)*; Volume 3 Issue 4ISSN: 2277-3754; (IF:1.895)pp.449-454; ISO 9001:2008 Certified , October 2013

❖ **Research paper entitle “Significance of Flammable property over Viscosity Index (VI) of Oil”;**Dr. A.T. Shende , J.N. Angaitkar, *International Journal of Engineering and Innovative Technology (IJEIT)*; Volume 3, Issue 1;ISSN: 2277-3754; (IF:1.895)pp.180-183;ISO 9001:2008 Certified , July 2013

❖ **Research paper entitle “Band gap of given Semiconductor material at 301.15K”;** A.T.Shende, N.A. Kunnawar, *International Journal of Engineering Science & Technology (IJEST)*; Vol.5 No.05S ;ISSN:0975-5462; (IF:1.913) pp.3-5; May2013

❖ **Research paper entitle “Acid value of various domestic uses oil”;** S.R. Tawde, N.A. Kunnawar,A.T. Shende, *International Journal of Engineering Science & Technology (IJEST)*; Vol.5 No.05S ;ISSN:0975-5462; (IF:1.913)pp.1-2; May2013



❖ **Research paper entitle “Study of molecular interaction through free volume and internal pressure of aqueous amino acids at 303.15K”;** A.T.Shende\*, P.V. Tabhane, and V.A. Tabhane; *International Journal of Pharmaceutical, Chemical and Biological Sciences*;;2(4);ISSN:2249-9504; (IF:0.478)pp.622-625; IJPCBS2012

❖ **Research paper entitle “Intermolecular free-length and their correlation with molecular interaction in aqueous amino acids at 303.15K”;** A.T.Shende\*, P.V. Tabhane, O.P. Chimankar and. V.A. Tabhane; *Biotechnology-An Indian Journal.*; Volume 6 Issue 10;ISSN:0974-7435; (IF:0.89) pp.332-326; BTAIL2012

❖ **Research paper entitle “Intermolecular free length and their correlation with molecular interaction in aqueous biological active sample at 308.15K”;** Dr. A.T. Shende ,Dr.V.A. Tabhane; *Journal of Biological & Physical Science*; Vol. No.-II(IV); ISSN No.2319-636X; pp.251-255;November 2012 (Peer reviewed)

#### **Publications in Conference Proceeding:**

❖ **Research paper entitle “Ionic Interaction in Aqueous L-Alanine through Gibb’s Free Energy”;** A.T. Shende, N.T. Tayade, M.P. Tirpude, V.A. Tabhane;International Conference onUltrasonic and Materials Science for Advanced Technology (ICUMSAT-2019), **Narosa Publishing House**, ISBN: 978-81-8487-703-8, pp.51-57, November, 16-18, 2019. (Peer Reviewed)

❖ **Research paper entitle“Role of Technical Organization in Women Empowerment”;** Amardeep T. Shende, Prin. Narayan K. Phadke; *One day National Inter-Disciplinary Conferenceon Women Empowerment for Sustainable Development of India: Opportunities & Challenges*, **SharayuPrakashan**, ISBN: 978-81-931391-9-6, pp. 200-204, Saturday, 20<sup>th</sup> February,2016.(Peer Reviewed)

❖ **Research paper entitle “Internal Pressure of Aqueous AminoAcidsat303.15K;** A.T. Shende, C.M. Dudhe, V.A. Tabhane ; *NationalConferenceon“RecentTrendsInBasicandAppliedMaterials”*,Organize dbyDept.ofPhysics,Institute of Science, Nagpur (India), 10<sup>th</sup> & 11<sup>th</sup>January2009 (Peer Reviewed)

#### **Oral Presentations at Conferences/Symposia/Seminars/Workshops**

❖ **Aqueous L-Alanine Molecular Interaction from Gibb’s free energy: CPCM and SMD in DFT and ultrasonic studies atInternational Conference on Research Frontiers in Sciences(ICRFS-2021)**, Department of Basic Sciences G.H. Raisonni College of Engineering, Nagpur (India) in association with Scopus indexed International Journal “ IOP Conference Series: Material Science and Engineering” (ISSN:1757-899X),5<sup>th</sup> and 6<sup>th</sup> February 2021.

❖ *Ionic Interaction in Aqueous L-Alanine through Gibb's Free Energy*; A.T. Shende, N.T. Tayade, M.P. Tirpude, V.A. Tabhane at "International Conference on Ultrasonic and Materials Science for Advanced Technology (ICUMSAT-2019)" organized by Dept. of Physics, Prof. Rajendra Singh (Raju Bhaiya) Institute of Physical Science for Study and Research, Veer Bahadur Singh Purvanchal University, Jaunpur-222003, UP (India) in collaboration with Ultrasonic Society of India, (India) on November 16-18, 2019.

❖ *Sustainable Potential of Geothermal Exploration at Palghar District- A case study*; A.T. Shende, N.D. Chinchkhede, N.K. Halikar at "One Day National Conference on Nature Resources Based Sustainable Development with Special Reference to Tribble Community Rights" organized by Internal Quality Assurance Cell (IQAC), Dr. S. D. D. Arts College & Commerce & Science College, Wada, Dist: Palghar, Maharashtra, (India) in collaboration with Indian Council of Social Science Research on Saturday, 19<sup>th</sup> October 2019.

❖ *Ultrasonic Investigation of Aqueous L-Alanine*; A.T. Shende, N. D. Chinchkhede, V.A. Tabhane at "National Conference on Recent Trends and Developments in Environmental and Basic Sciences (RTDEBS-2018)" organized by Faculty of Science in collaboration with Internal Quality Assurance Cell (IQAC), Dr. S. D. D. Arts College & Commerce & Science College, Wada, Dist: Palghar Maharashtra, (India) on Saturday, 10<sup>th</sup> March, 2018.

❖ *Role of Technical Organization in Women Empowerment*; Dr. Amardeep T. Shende, Principal Narayan K. Phadke at One-day National Inter-disciplinary Conference on "Women Empowerment for Sustainable Development of India: Opportunities & Challenges" organized by Saket Gyanpeeth's Saket College of Arts, Science and Commerce, Kalyan East Dist: Thane, Maharashtra (India) on Saturday, 20<sup>th</sup> February, 2016.

❖ *Structural characterization of aqueous amino acids through adiabatic compressibility measurement at 308.15K at 2<sup>nd</sup> International Congress on Science & Technology for Society with a theme: Conservation of Environmental by Advanced Technologies through Social Approaches for Sustainable Development*; organized by Vishwashanti Multipurpose Society, Nagpur (India), Society for Technologically Advance Material of India & The University of Peradeniya (Kandy) at Hotel Galadari, Colombo, (Srilanka) 19<sup>th</sup>, 20<sup>th</sup> & 21<sup>th</sup> May, 2015

❖ *Prediction of Internal Pressure and Surface Tension and their correlation with Molecular interaction in aqueous amino acids*, A.T. Shende, P.V. Tabhane, O.P. Chimankar, V.A. Tabhane at International Symposium on Ultrasonics (ISU-2015) with Focal theme: Ultrasound in Biomedical and Industrial Applications organized by Deptt. of Physics, R.T.M. Nagpur University, Nagpur, Maharashtra (India), 22-24 January 2015.

❖ *Molecular Interaction through Free Volume and Internal Pressure of aqueous Amino acids at 308.15K*; Amardeep.T. Shende, Hemant M. Baradkar and Vilas A. Tabhane at 1<sup>st</sup> International Congress on Science & Technology for Society with a theme: Sustainable Biodiversity Conservation through Technological and Social Approches; organized by Vishwashanti

**Multipurpose Society, Nagpur (India) & Regents International College, Bangkok held at Hotel Bangkok Palace, Bangkok, (Thailand) 23<sup>rd</sup>, 24<sup>th</sup> & 25<sup>th</sup> May, 2014**

❖ **Intermolecular free length and their correlation with molecular interaction in aqueous biological active sample at 308.15K; Dr. A.T. Shende, Dr.V.A. Tabhane in UGC sponsored II World Congress for Man & Nature-2012 on "Global Change: Impact on Biodiversity, Culture & Technology"; Sevadal Mahila Mahavidyalaya, Nagpur (India), 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup> November 2012**

❖ **Internal Pressure of Aqueous Amino Acids at 303.15 K; A.T. Shende\*, V.A. Tabhane, C.M. Dudhe; UGC Sponsored National Conference on "Recent Trends in Basic and Applied Materials", Organized by Dept. of Physics, Institute of Science, Nagpur (India), 10<sup>th</sup> & 11<sup>th</sup> January, 2009**

❖ **Iron Oxide Nanoparticles (Ions) in Anionic Dispersion; Nishant T. Tayade, Dr. Radha Shrinivasan, Amardeep Shende, Manish Tirpude; UGC Sponsored National Symposium on "Emerging Techniques in Materials Science (ETMS-2009)", Shri Mathuradas Mohota College of Science, Nagpur (India), iv Year: 22<sup>nd</sup> August 2009**

❖ **Adiabatic Compressibility of D-Fructose at 283.15 K; A. T. Shende, Krapal Mule, V.A. Tabhane in UGC sponsored State Level Seminar on "New Horizons in Biological Systems and Biotechnology", Department of Zoology, Govt. Institute of Science, Nagpur (India), 18<sup>th</sup> February 2010**

### **Conferences/Symposia/Seminars/Workshops attended**

❖ **One day Workshop on 150 years of the Periodic Table of Physics, November 03, 2018, Deptt of Physics, University of Mumbai, Mumbai, Maharashtra (India).**

❖ **One day Seminar on "Biophysics", 24<sup>th</sup> February, 2018, Department of Physics, S.I.C.E.S. Degree College of Arts, Science & Commerce, Ambarnath (W), Dist-Thane Maharashtra (India)**

❖ **National Conference on Non-Conventional Energy Sources for Rural Development of India, 6<sup>th</sup> January, 2018, Uttamrao Patil Arts & Science College Dahivel, Tal - Sakri, Dist - Dhule, Maharashtra (India),**

❖ **BRNS(DAE), DST, UGC & RSC sponsored International Conference on "Chemistry for Mankind: Innovative Ideas in life Sciences; Dept. of Chemistry, RTM Nagpur University, Nagpur & Institute of Science, Nagpur (India), 9<sup>th</sup>, 10<sup>th</sup> & 11<sup>th</sup> February, 2011.**

❖ **UGC, New Delhi Sponsored National Conference on "CHEMISTRY FOR HEALTH (N.C.C.H.)", 28<sup>th</sup> & 29<sup>th</sup> January 2010, Dept. of Chemistry, Institute of Science, Nagpur (India).**

❖ *Lom Officer's Training Seminar (LOTS-2010), Junior Chamber International India (JCI), 30th and 31st January 2010, KrazyCastle,Nagpur (India)*

❖ *National Symposium on " Emerging Techniques in Materials Science(ETMS-2009)", 22nd August 2009, Shri MathuradasMohota College of Science,Nagpur(India)*

❖ *UGC Sponsored National Conference on "Recent Trends in Material Synthesis &Characterization(NCRTMSC-2009)" , 4th & 5th Dec.2009,Dept. of Physics,Bhalerao Science College,Saoner,Dist.Nagpur(India).*

❖ *National Seminar on "Recent trends in Material Science", 10th March 2007, Department of Physics M.B.Patel College of Arts, Commerce & Science, Sakoli, Dist. Bhandara, Maharashtra (India)*

❖ *Students Seminar in Physics, 13th&14th January 2007, Anand Niketan College of Science, Arts & Commerce, Anandwan-Warora ,Dist.Chandrapur Vidarbha University Physics Teachers Association (VUPTA) (India)*

❖ *One-day Seminar on "Retrospect and Prospects", 7th October, 2006, Institute of Science, Nagpur,(India)*

❖ *Students Seminar in Physics, 24th& 25th January 2004, R.S.Bidkar College of Arts, Commerce and Science, Hinganghat,Vidarbha University Physics Teachers Association (VUPTA) ,(India)*

❖ *National Seminar on "Recent Advances in Mathematical Physics" (NSRAMP-2004), 4th January, Shri DnyaneshMahavidyalayaNawargaon, Chandrapur & Department of Mathematics, Nagpur University,Nagpur,(India)*

❖ *Student Seminar in Physics1st & 2nd February2003. Guru Nanak College of Science, Ballarpur, Vidarbha University Physics Teachers Association (VUPTA),(India)*

❖ *Workshop on "Teaching Physics in the frame work of UGC guidelines: A new approach" 24th August 2002, Nagpur University in Collaboration with Institute ofScience, Nagpur and VUPTA(India)*

❖ *One day workshop on "U.G. & P.G. Syllabi of Nagpur University" ,7th February2002, Dr. Ambedkar College, DeekshaBhoomi,Nagpur(India)*

❖ *Student Seminar in Physics, 26th and 27th January 2002, NevjabaiHitkarniCollege, Bramhapuri, Vidarbha University Physics Teachers Association (VUPTA) (India)*

## References

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