CURRICULUM VITAE

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Permanent Address

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University Address

PhD Research Scholar
Department of Atomic and Molecular Physics
Academic Block-5, Lower Ground Floor 1
MIT Campus, Manipal University
Manipal -576104
Karnataka, India

Objective:

Aspiring to work with an institution that offers a challenging career where I can learn and function effectively and contribute towards organizations goals. To constantly upgrade my knowledge and skills and make a difference in whatever I do.

Academics

Manipal University, Manipal
Ph.D. Experimental Physics (2011-Present)
Dissertation: Development of a Stand-off Laser Induced Breakdown Spectroscopy Based System for Multi-elemental Analysis
Supervisor: Prof. Santhosh Chidangil
Co-Supervisor: Dr. Unnikrishnan V. K.

Karnatak University, Dharwad
M.Sc. Physics (Spectroscopy; 2009-2011)
Project Title: Vibrational Analysis of Pyridine
Supervisor: Prof. (Mrs.) J. V. Yenagi
Aggregate Percentage: 69.64 %

C. S. Bembalagi College, Ramdurg, Belgaum
B.Sc. Physics, Chemistry and Mathematics (2006-2009)
Aggregate Percentage: 73.64 %

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Personal Strengths

Analytics, critical and logical thinking, good communication skills and willingness to learn and take up the responsibilities

Teaching Experience

Composite Sports PU College, Chandargi, Ramdurg, Belgaum

I worked as a lecturer from 16th July, 2011 to 16th Oct. 2011

Manipal University, Manipal

Conducted the classes for M.Sc. Photonics on Fourier Optics and Laser Safety

Awards/ Scholarships

- Scholarship to attend the workshop "Summer School on Lasers and Lasers Applications-2015" held from 6th July to 11th July, 2015 at Advanced Photonics Research Institute, Gwangju Institute of Science and Technology, Gwangju, South Korea.

- Received Travel Grant from Science and Engineering Research Board (SERB), Govt. of India to attend "International Conference on Optical and Photonic Engineering (icOPEN-17)" held at Singapore from 4th April to 7th April, 2017.

Publications

1. **Tamboli, M. M.,** Unnikrishnan, V. K., Nayak, R., Devangad, P., Shameem, K. M., Kartha, V. B., and Santhosh, C. (2016). "Development of a Stand-off Laser Induced Breakdown Spectroscopy (ST-LIBS) system for the analysis of complex matrices". *Journal of Instrumentation*, 11, P08021.

2. **Tamboli, M. M.,** Unnikrishnan, V. K., Devangad, P., K. M. Muhammed Shameem, and Santhosh, C. (2017). "ST-LIBS for heavy element detection in complex matrices". In *Fifth International Conference on Optical and Photonics Engineering*. International Society for Optics and Photonics, (104492T-104492T).

3. K. M. Muhammed Shameem, **Tamboli, M. M**., Devangad, P., George, S. D., and Kartha, V. B. (2017). "Conventional and standoff pulsed laser–Raman–echelle–time-gated (PRET) system." *Journal of Raman Spectroscopy*, 48, 785-788.

4. Praveen Devangad, V. K. Unnikrishnan, **M. M. Tamboli**, KM Muhammed Shameem, Rajesh Nayak, Khoobram S. Choudhari, and C. Santhosh (2016). "Quantification of Mn in glass matrices using laser induced breakdown spectroscopy (LIBS) combined with chemometric approaches." *Analytical Methods* 8, 7177-7184.

5. Praveen Devangad, V. K. Unnikrishnan, Rajesh Nayak, **M. M. Tamboli**, KM Muhammed Shameem, C. Santhosh, G. A. Kumar, and D. K. Sardar (2016). "Performance evaluation of Laser Induced Breakdown Spectroscopy (LIBS) for quantitative analysis of rare earth elements in phosphate glasses." *Optical Materials* 52, 32-37.

6. Unnikrishnan, V. K., Rajesh Nayak, Praveen Devangad, **M. M. Tamboli**, C. Santhosh, G. A. Kumar, and D. K. Sardar (2013). "Calibration based laser-induced breakdown spectroscopy (LIBS) for quantitative analysis of doped rare earth elements in phosphors." *Materials Letters* 107, 322-324.

7. Praveen Devangad, **M. M. Tamboli**, K.M. Muhammed Shameem, Rajesh Nayak, Ajeetkumar Patil, V.K. Unnikrishnan, C. Santhosh, G.A. Kumar (2017). "Spectroscopic identification of rare earth elements in phosphate glass", *Laser Physics*, (*Accepted*).

Conference Presentations

1. **M. M. Tamboli**, Unnikrishnan V.K., V. B. Kartha and Santhosh C*., "Stand-off laser induced breakdown spectroscopy (ST-LIBS) of environmental samples"*, presented at DAE-BRNS Biennial Trombay Symposium on Radiation and Photochemistry (TSRP) held at BARC, Mumbai, during January 5th -9th, 2016.

2. **M. M. Tamboli**, Unnikrishnan V.K., Praveen Devangad, K.M. Muhammed Shameem and Santhosh C., "*Stand-off Laser Induced Breakdown Spectroscopy system for quantitative analysis of lead and arsenic in soil"*, presented at the International conference on healthcare and technical research (ICHTR) held at Manipal University, Manipal during 21st -24th Dec., 2015.

3. **M. M. Tamboli**, Unnikrishnan V.K., Praveen Devangad, K.M. Muhammed Shameem and Santhosh C., *"Stand-off Laser Induced Breakdown Spectroscopy system for quantitative analysis of heavy metals in soil"*, presented at the DAE-BRNS National Laser Symposium (NLS-24) held at RRCAT, Indore during 02nd -05th Dec., 2015.

4. **M. M. Tamboli**, Unnikrishnan V.K., Praveen Devangad, K. M. Muhammed Shameem and Santhosh C., *"Stand-off Laser Induced Breakdown Spectroscopy: A comparative study using two telescopic arrangements"*, presented at the DAE-BRNS National Laser Symposium (NLS-23) held at S. V. University, Tirupati during 3rd – 6th Dec., 2014.

5. **M. M. Tamboli**, Choudhari K. S., Unnikrishnan V.K., and Santhosh C., *"Stand-off measurements of electron temperature and density using plasma spectroscopy"*, presented at the DAE-BRNS National Laser Symposium (NLS-23) held at S. V. University, Tirupati during 3rd – 6th Dec., 2014.

6. **M. M. Tamboli**, Praveen Devangad, Unnikrishnan V.K. and Santhosh C., *"Enhancing the Collection Efficiency in Laser Induced Breakdown Spectroscopy for Multi-Elemental Analysis"*, presented at the 28th National Symposium on Plasma Science & Technology (PLASMA-2013) held at KIIT University, Bhubaneshwar during 3rd - 6th Dec., 2013.

7. **M. M. Tamboli**, Praveen Devangad, Unnikrishnan V.K. and Santhosh C., *"Laser Induced Breakdown Spectroscopy: A Potential Stand-Off Tool For Elemental Analysis"*, presented at the Topical Conference on Atomic Processes in Plasmas (ISAMP-2013), Gandhinagar, Gujarat organized by Institute for Plasma Research, Gandhinagar, Gujarat during 18th - 20th Nov., 2013.

Declaration:

I hereby inform you that all above details are correct according to best of my knowledge.

[Maktumhusen Tamboli]