

Nattamai S. P. Bhuvanesh Ph.D.

Department of Chemistry, Texas A&M University, College Station, TX 77842
Tel. (979) 845 8290 Fax (979) 845 8184 Email nbhuv@mail.chem.tamu.edu

- | | | |
|----------------------------|---|------------------|
| Position | Assistant Manager , X-ray Diffraction Laboratory | Jan 2003-present |
| | <ul style="list-style-type: none">• Powder X-ray diffraction specialist• Operation and Maintenance of single crystal and powder diffractometers• Data collection, analysis, structure solution and refinement from powder and single crystal X-ray diffraction. | |
| Research Experience | Ohio State University , Columbus, OH. Department of Chemistry
Research Associate, Prof. Pat M. Woodward | 2001- 2002 |
| | <ul style="list-style-type: none">• Installed new instrument for high temperature impedance spectroscopic analysis• Synthesized novel layered perovskites by <i>Chimie-Douce</i> methods and refined structure from powder X-ray and neutron diffraction analysis | |
| | University of Houston , Houston, TX. Department of Chemistry
Postdoctoral Research Fellow, Prof. P. Shiv Halasyamani | 1999-2002 |
| | <ul style="list-style-type: none">• Worked in the setting up of a new solid state chemistry laboratory<ul style="list-style-type: none">- Fabrication and installation of several high temperature furnaces- Installation of high-pressure high-temperature supercritical hydrothermal systems- Setting up Kurtz-Perry system for the measurement of qualitative and quantitative nonlinear optical property [<i>viz.</i>, Second Harmonic Generation (SHG)] in powders.• Synthesized several novel open framework materials, and SHG active compounds and characterized by single crystal and powder X-ray diffraction• Trained students in synthesis, diffraction theory and application, materials characterization, data analyses, and presentation.• Co-managed Materials Research Center's X-ray diffraction facility<ul style="list-style-type: none">- Responsible for performance of X-ray diffractometers, including maintenance of equipment, upgrades, alignments and repairs. | |

Université du Maine, Le Mans, France. Laboratoire des Fluorures 1997-1999
Postdoctoral Research Associate, Prof. Jean-Louis Fourquet

- Synthesized several members of a new family of layered perovskites
 - Characterized by single crystal and powder diffraction analysis
 - Performed ionic conductivity studies by impedance spectroscopic analysis

Eductation Indian Institute of Science, Bangalore, India 1991-1996
Ph.D. Solid State Materials Chemistry

- Best thesis award (1997)
 - *Novel Metal Oxides Containing d^0 and d^1 cations*
Prof. J. Gopalakrishnan

American College, Madurai, India 1989-1991
M.Sc. Chemistry (Specialization Organic Chemistry)

- Passed with distinction
 - *Synthesis and Characterization of New Azabicycloketones*
Prof. Cooksley B. JawaharSingh

Achievements and Awards

- Published more than 20 scientific papers in internationally recognized journals
- Sudborough Medal for Best Thesis Award, 1997-1998
- Research Associate Fellowship, CNRS, France, 1998-1999
- Postdoctoral Research Fellowship, Region des Pays de la Loire, France, 1997-1998
- National predoctoral Senior Research Fellowship, CSIR, New Delhi, 1994-1996
- National predoctoral Junior Research Fellowship, Bangalore, India, 1991-1994