

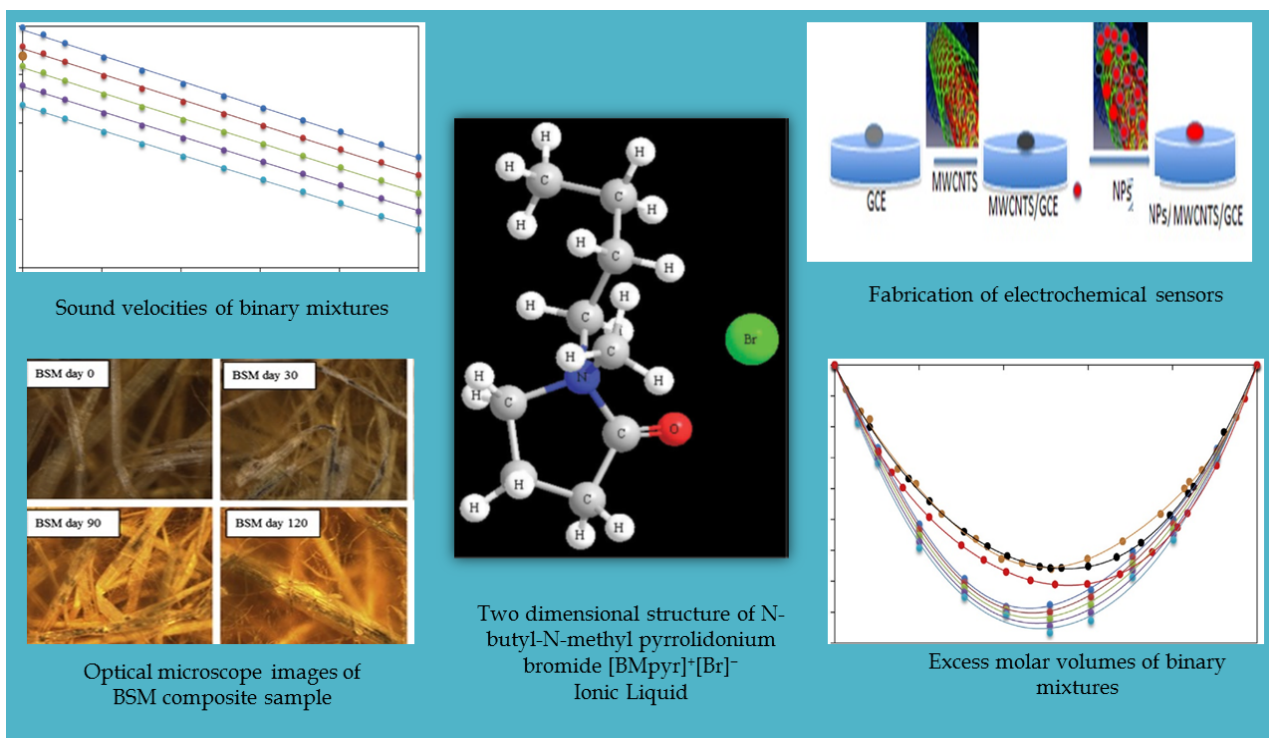
# PHASE EQUILIBRIA AND ELECTROANALYTICAL CHEMISTRY



Prof G G REDHI  
(Principal Investigator)

Our research group focusses on the study of phase equilibria, thermophysical and acoustic properties of binary and ternary mixtures as well as related correlation of experimental data. There is a constant need for new phase equilibrium data for the design of separation equipment and in terms of this endeavour, synthesis of ionic liquids, characterization and its applications were also practiced. In addition, we broadened our research area into electroanalytical and nano chemistry, involving the development of highly sensitive electrochemical sensors, especially for various pharmaceutical applications. Nanomaterials were successfully synthesised via green methods from biological and industrial waste materials followed by the study of its various applications.

## CURRENT RESEARCH ACTIVITIES



### GROUP MEMBERS:

Dr. N K Bhajanthri (PDF)

### Doctoral students:

Mrs. S Singh  
Mr. V K Armugam  
Mr. R Chokkareddy

### Masters students:

Mr. B Kabane

### PAST STUDENTS:

### Doctoral students:

Dr Paul

### Masters students:

Mrs. C Marume  
Mrs. N M Xhakaza  
Mrs. P N Cele

### COLLABORATORS:

1. Prof P Venkatasu, Delhi University, New Delhi, India
2. Prof. Urszula Domańska, Warsaw University of Technology, Poland
3. Prof. D Ramjugernath, University of KwaZulu-Natal, South Africa.
4. Prof. E E Ebenso, North-West University, South Africa.