

## BIODATA



Name : Dr Shrikant S/o Shankar rao Ekhelikar

Place of Birth : Rajeshwar Tq Basav kalyan Dt Bidar

Date of birth : 19-08 1964 age 57 years

Educational qualifications : **School:** Rajeshwar TQ Basav Kalyan Dt Bidar  
**BSc -** S B Science College,Gulbarga 1984  
**MSc** Physics - Gulbarga University 1986  
**Ph.D.-** Dr Babasaheb Ambedkar  
Marathwada University, Aurangabad  
**May 2004** under Guidance of  
**Prof Govind Bichile**

Additional Qualification: **\* Post Graduate Diploma in Electronic Data Processing and Computer Management** (Bharatiya Vidya Bhavan's Rajendra Prasad Institute of Communication and Management, Bombay),May 1987

**\* Diploma in Psychological Counseling –** Institute of Health Care Administration Madras, August, 1994

Teaching Experience : **Teaching BSc Physics students for 34 years in N VDegree College since 1987**

Research Guide in Physics : **Recognized as research guide in Physics by Dr Babasaheb Ambedkar Marathwada University, Aurangabad**

Details of Ph.D. students : Ph D degree awarded to **TWO** Research students

**Ph.D. Student**

**Name of PhD student: 1)Dr Ramesh Patil  
(year of award Jan 2013)**

**2) Dr. Shridhar Hukkeri (Feb2016)**

**M. Phil, Students  
Research Papers published**

**: Awarded to 09 Students  
Total: 25**

**National Journal : 05 papers  
published  
International Journal : 06 papers  
published**

- 1) Research paper Published in ‘Composite B: Engineering’ international Journal with High impact factor 3.85 published by Elsevier North Holland Vol.43 issue 8 page number 3406-3411( Dec 2012) and cited by 43**
- 2) Research Paper Published in Journal of Applied Polymer Science publisher - Wiley international and**
- 3) Ferroelectrics journal published by Taylor and Francis UK**

**Research papers Presented in Seminar and Conference:**

**National Conference: 11 and International Conference : 03**

**National and International Journals:**

**International Journals:**

- 1. Shrikant Ekhelkar and G K Bichile “The Structural investigations of the non-stoichiometric solid solutions(  $\text{Bi}_2\text{O}_3$ )<sub>1-x</sub>( $\text{M}_2\text{O}_3$ )<sub>x</sub> (M=Y,La, Pr ,Nd,Gd and Dy)” **Ionics journal Germany vol.10(2004) 118 .****
- 2. Ameena Parveen, Koppalkar Anil Kumar , M. Revanasidappa , Shrikant Ekhilkar and M.V.N Ambika Prasad “Dielectric Spectroscopy of Pani-CaTiO<sub>3</sub> Composites” **Ferroelectrics 377 ,1(2008) 63-74 Taylor and Francis UK****
- 3. K. Sangshetty<sup>a</sup>, Anilkumar R. Koppalkar, M. Revansiddappa, Shrikant Ekhilekar and M.V.N. Ambika Prasad, Dielectric spectroscopy of polyaniline–Dy<sub>2</sub>O<sub>3</sub> composites **Physica B: Condensed Matter** Volume 404, Issues 14-15, 1 July 2009, 1883-1886**
- 4. Studies on Fourier Transform Infrared Spectroscopy, Scanning Electron Microscope, and Direct Current Conductivity of Polyaniline Doped Zinc Ferrite, *Ramesh Patil*, Aashis S. Roy, Koppalkar R. Anilkumar, Srikant Ekhelkar, *J. App. Poly. Sci;* **121(2011) 262 (Cited by18)****
- 5 Electrical conductivity of PANI/NiZnO<sub>3</sub> composites: A solid state electrolyte, *Ramesh Patil*, Aashis S. Roy, Koppalkar R. Anilkumar, Srikant Ekhelkar, **Ferroelectrics U K Vol. 423(1-9) (2011)****

- 6 Dielectric and AC conductivity behavior of PANI/ZnFe<sub>2</sub>O<sub>4</sub> composites, **Ramesh Patil**, Aashis S.Roy, Koppalkar R. Anilkumar, K.M.Jadhav, Srikant Ekhelikar, **Composites Part B: Engg: Vol.43 issue8 pp 3406-3411 (Dec 2012) Elsevier (cited by 43)**

#### National Journal:

1. **Shrikant Ekhelikar** and G K Bichile "Synthesis and structural studies of (Bi<sub>2</sub>O<sub>3</sub>)<sub>1-x</sub>(Y<sub>2</sub>O<sub>3</sub>)<sub>x</sub> and (Bi<sub>2</sub>O<sub>3</sub>)<sub>1-x</sub>(Gd<sub>2</sub>O<sub>3</sub>)<sub>x</sub> solid solutions" **Bull .Mater. Sc. Vol.27, No.1, Feb. 2004, pp 19-22 (cited by 36)**
2. **Shrikant Ekhelikar** and G K Bichile "Synthesis and structural studies of (Bi<sub>2</sub>O<sub>3</sub>)<sub>1-x</sub>(Dy<sub>2</sub>O<sub>3</sub>)<sub>x</sub> and (Bi<sub>2</sub>O<sub>3</sub>)<sub>1-x</sub>(Pr<sub>2</sub>O<sub>3</sub>)<sub>x</sub> binary systems" **Indian Journal of Pure and applied Physics** Vol 42, Dec 2004, pp.912-915
3. Synthesis, Characterization and DC conductivity studies on polyaniline doped with nano-CuO, Srikant Ekhelikar, Aashis S. Roy, Koppalkar R. Anilkumar, **Ramesh Patil**, and M.V.N Ambika Prasad; **Bionano Frontier, 1(2010) 6**
4. Synthesis of Nickel Ferrite having Super nano Size particles by Sol Gel method Shridhar H,**Shrikant Ekhelikar**,KM Jadhav and R G kulkarni published in International journal of Advanced research in Basic and applied sciences vol1,issue 1 Dec2014 ISSN 2394 4072
5. X –ray Debye temperature study of NiAl<sub>2x</sub> Cr<sub>x</sub> Fe<sub>2-3x</sub> O<sub>4</sub> having supe rnano size particles Shridhar H,**Shrikant Ekhelikar**,KM Jadhav and R G kulkarni published in Journal of advances in applied Sciences and Technology March 2015 vol2 issue 1 pp53-55 ISSN 2393 8188

#### Papers presented at Seminar and Coneferences:

1. **Shrikant Ekhelikar** and G K Bichile "Stabilization of fluorite structured bismuth oxide based solid electrolyte and transport properties" presented at National conference on Emerging materials and technologies organized by Department of Physics, S V University, TIRUPATI NCEMAT-2004. Aug 3-4,2004.
- 2 **Shrikant Ekhelikar** , K M Jadhav and G K Bichile "Synthesis and Characterization of (Bi<sub>2</sub>O<sub>3</sub>)<sub>1-x</sub>(La<sub>2</sub>O<sub>3</sub>)<sub>x</sub> oxygen ion conducting binary system" Proc. 49<sup>th</sup> DAE SSPS2004 symposium(26,30<sup>th</sup> Dec.2005) at Guru Nanak Dev University, Amritsar pp 969-970
- 3 .S B Jaiswal , **Shrikant Ekhelikar**, K M Jadhav and G K Bichile "Characterization of CuInS<sub>2</sub> thin films prepared by spray pyrolysis" Proc. 49<sup>th</sup> DAE SSPS symposium at G N D University, Amritsar. (26,30<sup>th</sup> Dec.2005) pp 800-801
5. Faud A G., Dengle R T, **Ekhelikar Srkant**, Jadhav K M and Bichile G K "Structural and magnetic properties of Ni doped Lithium ferrite system " presented at 92<sup>nd</sup> Indian Science Congress, Hyderabad , January 3-7, 2006
6. **Shrikant Ekhelikar**, K M Jadhav and G Bichile "Synthesis and Transport

- properties of  $(\text{Bi}_2\text{O}_3)_{1-x}(\text{Dy}_2\text{O}_3)_x$  and  $(\text{Bi}_2\text{O}_3)_{1-x}(\text{Pr}_2\text{O}_3)_x$  binary systems” Presented at National Conference on Advanced materials AMS07 at Materials Science Department, Gulbarga University, GULBARGA from 28 and 29<sup>th</sup> Jan 2007
7. **Shrikant Ekhelikar**, Anilkumar Koppalkar, G R Badiger and M V N Ambika Prasad “Synthesis and Characterization of PANI-Nd<sub>2</sub>O<sub>3</sub>-Al<sub>2</sub>O<sub>3</sub> composites at National conference on material Characterization of technologically important materials” at Dr B A Marthwada University Aurangabad. 29-31, Jan 2007
  8. Ambika Prasad MVN, Ameena Parveen, Anilkumar R Koppalkar, **Shrikant S Ekhelikar** Synthesis and Electrical Properties of Pani - ZrO<sub>2</sub> Presented at National Conference on Green Chemistry organized by Dept of Chemistry, Kakatiya University, Warangal ( Andhra pradesh) on 1<sup>st</sup>, 2<sup>nd</sup> Feb 2008
  8. Ambika Prasad MVN, Ameena Parveen, Anilkumar R Koppalkar, **Shrikant S Ekhelikar** Synthesis and Electrical Properties of Pani - SrTiO<sub>3</sub> Presented at National Conference on Recent trends in Nano Science and Green Chemistry organized by S S Margol College, SHAHABAD on 23<sup>rd</sup> and 24<sup>th</sup> Oct 2009
  9. Ambika Prasad MVN, **Shrikant S Ekhelikar and Ramesh Patil** Synthesis and Electrical Properties of Pani - Ni ferrite composites Presented at National Conference on Recent trends in Nano science and Green Chemistry organized by S S Margol College, SHAHABAD on 23<sup>rd</sup> and 24<sup>th</sup> Oct 2009
  10. **Srikant Ekhelikar**, Aashis S. Roy, Koppalkar R. Anilkumar, Ramesh Patil Presented paper international conference on recent Trends in materials Science and technology **Influence of LPG on the sensitivity of Polyaniline/Zirconium dioxide composites** 29<sup>th</sup> -31 Oct 2010 organized by Indian Institute of Space Technology, Thiruvananthapuram
  - 11 “Synthesis, Characterization and Humidity Sensing properties of PANI doped ZnFe<sub>2</sub>O<sub>4</sub>”, **Ramesh Patil**, Aashis S.Roy, Koppalkar R.Anilkumar, Srikant Ekhelikar, **National conference on Sensor Application NCSA-11 organized by CGCRI, Kolkata on March 11-12, 2011**
  12. **Impedance spectra of polyaniline / nickel zinc oxide composites** Presented in International conference on Recent Advances in Materials Science Organized by Karnataka state Higher education council **6 – 8 Nov 2012 Srikant Ekhelikar**, Aashis S.Roy, Koppalkar R. Anilkumar, Ramesh Patil, and M.V.N Ambika Prasad
  - 13 **Shrikant Ekhelikar**, Aashis S.Roy, K. R. Anilkumar, Ramesh Patil Presented Paper in International Conference international Union of Materials research Society IUMRS ICA 2013 from Dec 16<sup>th</sup> to 20<sup>th</sup> Organized by **Indian institute of science Bangalore**

### **Life Memberships:**

- 1) **Indian Solid State Ionics Society (I.S.S.I.S.) Banaras Hindu University**
- 2) **Materials Research Society of India ( MRSI LMB673) Bangalore**
- 3) Indian Association of Physics Teachers' (I.A.P.T.LM734).
- 4) Indian Physics Association (I P A GEN/LM/12001) Mumbai
- 5) Electrochemical Society of India Bangalore
- 6) Karnataka Rajya Vigyan Parishat (K.R.V.P.D32). Bangalore
- 7) Gulbarga University Private College Teachers' Association ( GUPCTA).
- 8) Marathi Sahitya Mandal Gulbarga
- 9) Kannada Sahitya Parishat Bengaluru #27279

### **Positions held in college:**

- 1) Head Dept. of Physics
- 2) Placement officer 2005 to 2008

### **Seminar / Conference Organized :**

- 1) **U.G.C. sponsored National Seminar on Promotion of Basic Science 2005.**
- 2) **U.G.C. sponsored National Seminar on Personality Development and Learning Strategies 2008.**

### **Principal Investigator: Two minor research projects from UGC**

- 1 Minor research project supported by UGC Rs 85,000/-  
Synthesis ,characterization of Polyaniline composites and Microwave applications (2005-07)
- 2 Minor research project applied to UGC XI Plan entitled  
“ Synthesis ,characterization of Polypyrrole composites and Sensor applications” (2008-09) Rs35000/-

### **Invited as Resource Person by other Colleges:**

- 1) **Invited to deliver talk for Rural science teacher training on by Jog Shete Science Center , NV Society Gulbarga on 24th August 2013**
- 2) **Invited to deliver talk on ‘Recent Trends in Astrophysics’ by Karnataka Arts, Science Commerce Degree College, Bidar on 26<sup>th</sup> Feb 2016**
- 3) Invited to deliver talk on Nuclear instruments: Accelerator -Cyclotron by Smt VG Women`s College Kalaburgi on 20-7-2016
- 4) Invited to deliver talk on Superconductivity by SS Margol college Shahabad on 10-9-2018

5) Invited to deliver talk on Nanomaterials by SS Margol college Shahabd on 10-9-2018

**Invited to chair sessions in National Seminars organized by other Colleges:**

- 1) **UGC sponsored National Conference on Advancements in Nano Science for different Technologies Organized by Sri Krishna Mahavidyalaya, Gunjoti on 10<sup>th</sup> and 11<sup>th</sup> Feb 2010**
- 2) **UGC Sponsored National seminar on Emerging Trends in Materials science chaired session on Polymer materials organized by SG College ,Koppal 11 th and 12<sup>th</sup> March 2012**
- 3) **UGC sponsored National Seminar on “Green Chemistry in Tackling Global warming” SCGW2014 organized by S P and J M Bohra degree college, Shorapur on 19,20th September 2014 Chaired session on Bio fuels for Greener Planet**
- 4) **Invited to chair session in DST Science and Engg research Board sponsored National Seminar on Impact of Green Chemistry on Biodiversity and Environmental Challenges(IGCBE2019) Organized by S S Margol College Shahabad on 20<sup>th</sup> and 21<sup>st</sup> September 2019**
- 5) **International Conference on Physics and Allied subjects Invited for Research Organized by BV B college Bidar and sponsored by KSTA Bengaluru on 11 to 13 th March 2020**

**Research Committee Member of Bhimanna Khandre Institute of Technology  
Bhalki: Physics department**

**BOS member Physics: Gulbarga University and Invited by Govt Science College, Gulbarga (autonomous) - Syllabus framing semester , CBCS 2018 and NEP syllabus 2021.**

**Also Semester Regulations Committee of Gulbarga University 2005-06**

**BOE member : Evaluated PhD thesis from Sant Gadgebaba University Amravati  
& Dr Baba Saheb Ambedkar Marathwada University Aurangabad**

**Reviewer for Journal : Journal of Physics and Chemistry of Solids(2015)  
Reviewer for : Dept of Atomic Energy DAE solid state Symposium  
2013 , 2014 and 2015**