

CURRICULUM VITAE

DR. SHIVKUMAR M BIRADAR

Department of Mathematics
Govt. First Grade College, Chitguppa
Tq: Humanabad – 585 412
Dist: Bidar; Karnataka State
India.

Email: shivumb@rediffmail.com
Phone: +91-9980094246



Education:

Ph.D. in Mathematics, Gulbarga University, Gulbarga, 2013.

Title: “Effect of Heterogeneous Reactions on the Dispersion of a Solute With and Without Chemical Reactions”.

M.Phil. in Mathematics, Gulbarga University, Gulbarga, 2007.

Title: “Effect of Homogeneous Reactions on the Dispersion of a Solute for Immiscible Viscous Fluids Between Two Plates”.

M.Sc. in Mathematics, Gulbarga University, Gulbarga, 2005.

B.Sc., Gulbarga University, Gulbarga, 2003.

Areas of Research Interest:

Applied Mathematics, Porous Media, Fluid Flow, Two Phase Flow, Chemical Reaction, Heat and Mass Transfer.

Employment History:

- Assistant Professor in Department of Mathematics, Govt. First Grade College, Humanabad – 585 330, Dist. Bidar, Karnataka State, India (Sept-2009 – July-2013).
- Assistant Professor in Department of Mathematics, Govt. First Grade College, Chitguppa, Tq: Humanabad – 585 412, Dist. Bidar, Karnataka State, India (July-2013 - Present).

Research Publications:

1. J. Prathap Kumar, J.C. Umavathi, and **Shivkumar Madhavarao**, “Dispersion in Composite Porous Medium with Homogeneous and Heterogeneous Chemical Reactions”, *Heat Transfer Asian Research*, vol. 40(7), pp. 608-640 (2011).
2. J. Prathap Kumar, J.C. Umavathi, and **Shivkumar Madhavarao**, “Effect of Homogeneous and Heterogeneous Reactions on the Solute Dispersion in Composite

Porous Medium”, *International Journal of Engineering, Science and Technology*, vol. 4(2), pp. 58-76 (2012).

3. J. Prathap Kumar, J.C. Umavathi, and **Shivkumar Madhavarao**, “Dispersion in an Horizontal Channel Containing Electrically Conducting and Viscous Immiscible Fluids with and without Chemical Reactions”, *Journal of Applied Fluid Mechanics* (COMMUNICATED).

Research Work Presented at International Conferences:

- Attended and Presented a Paper entitled “ **Effect of homogeneous and heterogeneous reactions on the dispersion of a solute for two fluid model** ” in International Conference on Frontiers in Fluid Mechanics (ICFFM-09), organized under the aegis of UGC-Centre for Advanced Studies in Fluid Mechanics, Department of Mathematics, Bangalore University, Bangalore-560001 during August 31 to September 2, 2009.
- Participated and Presented a paper entitled “**Dispersion of a Solute in Hertmann Two Fluid Flow Between Two Parallel Plates**” in 57th Congress of Indian Society of Theoretical and Applied Mechanics (ISTAM), an International Meet, organized by the Department of Applied Mathematics and Department of Mechanical Engineering, Defence Institute of Advanced Technology, (Deemed University), Girinagar, Pune, held from December 17-20, 2012.

Research Work Presented at National Conference / Symposium:

- Attended and presented a paper in the National Symposium on “**Recent Advances in Applied Mathematics**”, Sponsored by UGC- New Delhi under Special Assistance Programme, DRS-II held during February, 8-9, 2010.
- Attended and presented a paper entitled “**Unsteady solute dispersion in composite porous medium with homogeneous and heterogeneous chemical reactions**” in the National Conference on “ Frontiers in Fluid Mechanics” held during February 22-23, 2011 at the Department of Studies and Research in Mathematics, Gulbarga University,

Gulbarga, sponsored by University Grant Commission, New Delhi under the Special Assistance Programme, DRS-II.

- Participated and presented a paper entitled **“Effect of dispersion of a solute in an immiscible magnetohydrodynamic viscous flow between two parallel plates”** in the National Conference on “Recent Trends in Fluid Mechanics” held on 16th May, 2012 at the Department of Studies and Research in Mathematics, Tumkur University, Tumkur, Sponsored by Centre for Industrial and Applied Mathematics and Dept. of Mathematics.
- Participated and presented a paper entitled **“Dispersion of Electrically Conducting and Viscous Fluids with Homogeneous and Heterogeneous Chemical Reactions”** in the National Conference on Advances in Mathematical Analysis and Applications held at K. S. Rangasamy College of Arts and Science, Tiruchengode on 12 and 13, August 2011.

National / International Seminars / Conferences / Workshops Attended:

- Attended the Workshop in Mathematics held during March 26-28, 2007 at Department of Mathematics, Gulbarga University, Gulbarga, Under UGC Special Assistance Programme – DRS.
- Attended the National Seminar on “Fluid Mechanics” sponsored by University Grant Commission, New Delhi under the Special Assistance Programme DRS-II held at Department of Mathematics, Gulbarga University, Gulbarga, during March 24-25, 2009.
- Participated in the 100th Indian Science Congress held at Calcutta University, Kolkata from January 3 – 7, 2013.

Participated in Orientation Program/Refresher Program/Training Program:

- Participated in the TEACHER EMPOWERMENT TRAINING for ASSISTANT PROFESSORS conducted by the Department of Collegiate Education, Government of Karnataka in collaboration with Karnataka Jnana Ayoga during 18-24 September, 2011.

- Attended the World Aids Day and One day Orientation Program for NSS officers hosted by Govt. First Grade College, Humnabad, Dist. Bidar on 1st Dec 2010 under the National Service Scheme by Gulbarga University, Gulbarga.
- Attended the 64th Orientation Program held at Academic Staff College, University of Hyderabad, Hyderabad from 17-02-2010 to 16-03-2010.
- Attended the Refresher Program held at Academic Staff College, University of Hyderabad, Hyderabad from 23-08-2013 to 12-09-2013.

Membership in Professional Organisation:

- Life Member of International Society of Theoretical and Applied Mechanics (ISTAM).

Extra Activities:

- Worked as Student Welfare Officer in Govt. First Grade College, Humnabad, for one academic year 2011-12.
- Worked as Secretary of Physical Department in Govt. First Grade College, Humnabad, from 02-11-2009 to 19-07-2010.