

CURRICULAM-VITAE

Name : **DR. MRS. JAIMALA**

Husband's Name : Mr. Ravindra Nath Bishnoi

Date of Birth : July 13, 1966

Present Address : Dr. Jaimala
Reader
Department of Mathematics,
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ACADEMIC QUALIFICATION

EXAMINATION	DIVISION	PERCENTAGE	YEAR	BOARD/UNIVERSITY
High School	1 ST	65.4%	1981	U. P. Board, Allahabad
Intermediate	1 ST	71.4%	1983	U. P. Board, Allahabad
B. A. (23 rd Position in University)	1 ST	70.2%	1985	Ch. Charan Singh University, Meerut
M. A. (1 st Position in University in M.A. & M. Sc.)	1 ST	82.5%	1987	Ch. Charan Singh University, Meerut
M. Phil. (1 st Position in all Faculties in University)	1 ST	90.8%	1988	Ch. Charan Singh University, Meerut

M. Phil. Project Title : “ Stability of Stratified and Dusty Flows.”

Ph. D. (Mathematics)

1992 Institute of Advanced Studies,
Ch. Charan Singh University,
Meerut

Thesis Title : “ Stability of Stratified and Dusty Flows.” **Supervisor :** Prof. S.C. Agrawal

SCHOLARSHIPS / FELLOWSHIPS / MEDALS

- National Scholarship of Merit for two years in M. A.
- Gold Medal for the best student in College in the year 1989.
- Merit Certificate from University for securing 1ST position in M. A. & M. Sc. both in University.
- Scholarship of Merit for one year in M. Phil.
- Merit Certificate for securing 1ST position in M. Phil. in all faculties of University.
- Recipient of U. G. C. (NET) Research Fellowship.

POSITIONS HELD

From Feb. 1991-Feb. 2001	:	Lecturer, Department of Mathematics S.S.V. (P.G.) College, Hapur.
Feb. 2001-July 2002	:	Reader, Department of Mathematics S.S.V. (P.G.) College, Hapur.
July 2002 onwards	:	Reader, Department of Mathematics Ch. Charan Singh University, Meerut (U.P.), India.

PARTICIPATION IN SYMPOSIA / CONFERENCES **(INTERNATIONAL / NATIONAL)**

- Gave an invited talk in the National Seminar on Recent Trends in Mathematical Biosciences held at H. B. T. I. Kanpur, India on 14.12.91 on the topic “Instability Problems through Porous Medium”.
- Presented the research paper entitled “ Stability of Dusty Flow between Two Rotating Coaxial Cylinders in a Porous Medium” (Co-Authors: Rachna and S. C. Agrawal) in the 61st annual session of the National Academy of Sciences, India, held at Ch. Charan Singh University, Meerut, India from Dec. 19-21, 1991.
- Attended a Symposium on Character Building at Hastinapur, India from Oct. 8-12, 1992.
- Presented the research paper entitled “ Stability of Thermo Convective Flow through a Saturated Porous Medium” (Co-Author : S. C. Agrawal) in the 37 INSTAM Congress, India, held at G. B. Pant University of Agriculture and Technology, Pantnagar, India from Jan. 14-16, 1993.
- Attended a two day seminar on “Mathematics in the 21st Century” sponsored by the U. G. C. held at Ch. Charan Singh University, Meerut India, from Mar. 26-27, 2000.
- Attended a National Conference on “Emerging Trends in Mathematics” held at Department of Mathematics, Aligarh Muslim University, Aligarh, India from Mar. 24-26, 2001.
- Presented the research paper entitled “Shear Flow Instability of a Viscoelastic Fluid (Oldroydian) in a Porous Medium: Effect of a Weak Magnetic Field” in an International Conference of ‘ International Academy of Physical Sciences’ held at Ch. Charan Singh University, Meerut, India from Dec. 29-31, 2005.
- Attended a National Conference ‘National Seminar on Mathematics and Computer Science’ held at S. D. (P.G.) College Muzaffarnagar, India from Nov 29-30, 2005.
- Attended an International Conference of ‘International Academy of Physical Sciences’ held at Ambedkar University, Agra, India from Feb. 3-5, 2006.

- Presented the research paper entitled “On the Stability of Stratified Flows of Micropolar Fluids” in an International Conference ‘ Advances in Mathematics: Historical Developments and Engineering Applications’ held at G. B. Pant University, Pantnagar, India from Dec. 19-22, 2007
- Delivered a guest lecture on the topic ”Linear Stability of Flows: Concept and Recent Trends” in 4th M. P. Science Congress held at Madhav Institute of Technology and Science, Gwalior (M. P.) from Feb. 2-3, 2008.
- Chaired a session in 4th M. P. Science Congress held at Madhav Institute of Technology and Science, Gwalior (M. P.) from Feb. 2-3, 2008.

ACADEMIC COURSES ATTENDED

- 1) Refresher Course from Academic Staff College A. M. U. Aligarh from Feb. 29 - Mar. 30, 2001.
- 2) Refresher Course from C. P. D. H. E. Delhi University, Delhi from Apr. 30 - May 19, 2001.

RESEARCH PAPERS

a) **PUBLISHED (INCLUDING JOINT PAPERS)**

1. Compressible Flow Instability in Porous Medium (Jointly with S. C. Agrawal), (Ganita, 44 (1), 1990).
2. Shear Flow Instability in Porous Medium (Jointly with S. C. Agrawal), (Indian J. Pure Appl. Mathematics, 27\7, 64, 1991).
3. Compressible Shear Flow Instability in Porous Medium, Part-I Slightly Compressible Flow With Subsonic Disturbances (Jointly with S. C. Agrawal), (Pure and Appl. Mathematical Sci. XXXX, 1-2, 81, 1994).
4. Compressible Shear Flow Instability in Porous Medium Part-II Subsonic Disturbances in the Presence of a Weak Applied Magnetic Field (Jointly with S. C. Agrawal), (Pure and Appl. Mathematical Sci. XXXX, 1-2, 95, 1994).

5. Shear Flow Instability of an Incompressible Viscoelastic Second Order Fluid in a Porous Medium (Jointly with Atul Kumar Goel and S. C. Agrawal), (Indian J. Pure Appl. Mathematics, 28(4), 563-573, April 1997).
6. Shear Flow Instability of an Incompressible Viscoelastic Fluid in a Porous Medium in the Presence of a Weak Magnetic Field (Jointly with Nidhi Bansal and S. C. Agrawal), (Indian J. Pure Appl. Mathematics, 30(12), 1283-1295, Dec. 1999).
7. Shear Flow Instability of Viscoelastic Fluid in an Anisotropic Porous Medium (Jointly with Anshu Agrawal and S. C. Agrawal), (Ganita, 55, 1, 61-73, 2004).
8. Shear Flow Instability of a Viscoelastic Fluid (Oldroydian) Fluid in a Porous Medium: Effect of a Weak Magnetic Field (Jointly with Anshu Agrawal and S. C. Agrawal),(Indian Research Communication, Vol 2(1): 7-15,2008)
9. On the Stability of Stratified Flows of Micropolar Fluids (Jointly with Nidhi Goyal and S.C. Agrawal) accepted for publication in Journal of Mathematical and Applied Analysis.

b) COMMUNICATED

1. On the Stability of Stratified Flows of Micropolar Fluid in a Porous Medium (Jointly with Nidhi Goyal and S.C. Agrawal) (communicated to Ganita).
2. Soret – Dufour Instability of an Incompressible, Viscous Fluid Confined in a Porous Medium in the Presence of Magnetic Field (Jointly with Ruchi Goel and S. C. Agrawal), (communicated to Rajasthan Academy of Physical Sciences).
3. Soret- Dufour driven Thermosolutal Instability of Darcy - Maxwell Fluid (Jointly with Nidhi Goyal, Manoj Kumar and S.C. Agrawal) (communicated to Transport in Porous Media).

LIST OF AWARDED / REGISTERED RESEARCH SCHOLARS

Name	Title of the Thesis	Year
1. Anshu Agrawal	Hydrodynamic and Hydromagnetic Stability of Flows through Continuous and Porous Media	Awarded in 2004
2. Uday Singh	Fourier Approximation in L_p ($p > 1$) Spaces Using Summability Techniques	Registered in 2004 Awarded in 2006
3. Reetesh Malik	Stability Analysis of Some Flow Problems	Registered in 2003 (Topic Approved)
4. Nidhi Mittal	Linear Stability Analysis of Fluid Flows Through Porous Media	Registered in 2005 (Topic Approved)
5. Vikrant	Stability Analysis of some parametric Flow Problems	Registered in 2006 (Topic Approved)

M. PHIL. PROJECT SUPERVISED

- 1) **“On the Stability of Some Non-Newtonian Flows”** by Ritu Goel (1994).
- 2) **“Some Aspects of Thermoconvective Instability”** by Madhvi Tayal (1995).
- 3) **“Stability of Some Rivlin-Ericksen Fluids”** by Nikhil Kumar (2004).
- 4) **“Sir Issac Newton : Man, Myth and Discoveries”** by Sanjay Kumar (2005).
- 5) **“Hydrodynamic Rayleigh Taylor Instability of Some Non-viscous and Viscous Fluid Layers”** by Pitam Singh (2005).
- 6) **“Analysis of Some Flows With Permeability Variations”** by Dheerendra Kumar (2005).
- 7) **“Stability Analysis of Some Couple Stress Fluids”** by Amit Kumar (2005).
- 8) **“Stability Analysis of Some Multiparametric Flow Problems”** by Vikrant (2006).
- 9) **“Behaviour of Perturbations on the Flow of Newtonian and Non-newtonian Fluids”** by Sharad Kumar (2006).

- 10) **“Sheared and Non-sheared Flow Instability of a Continuous and Saturated Fluid”**
by Meenakshi (2006).
- 11) **“Analusis of the Growth of Perturbations on Time Independent Basic Solution of Some Newtonian and non-Newtonian Fluids”** by Rajeev Kumar (2007).
- 12) **“Stability Analysis of Two Superposed Fluids in the Presence of Dust Particles”**
by Sanjay Kumar (2007).
- 13) **“Behaviour of Perturbations in Reference to the Stability of Two Superposed non-Newtonian Fluids** by Pooja Khandelwal(2007).

ADMINISTRATIVE ASSIGNMENTS

- ❑ Assisted University Administration for Student Union Elections.
- ❑ Asstt. Proctor : Ch. Charan Singh University, Meerut from March 2003 to April 2004.
- ❑ Member ‘ Women Wing’ from July 2003.
- ❑ Member ‘Girl’s Hostel Committee’ from 2004.
- ❑ Asstt. Warden, Durga Bhabhi Girls’ Hostel, Ch. Charan Singh University, Meerut from 2006 to 23 Sep. 2008.
- ❑ Asstt. Proctor : Ch. Charan Singh University, Meerut from 2007 till date.
- ❑ . Warden, Durga Bhabhi Girls’ Hostel, Ch. Charan Singh University, Meerut from 24 Sep. 2008 till date.

MEMBERSHIP OF LEARNED SOCITIES

- Life Member – Indian Mathematical Society.
- Life Member – National Academy of Sciences, India.