

ANTHONY CHRISTY MELSON

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1. PROFESSIONAL HISTORY:

- i. Assistant Professor
Department of Mathematics
BMS College of Engineering,
Bengaluru - 560 019.
Period: - 5/08/2012 till date
- ii. Lecturer
Department of Mathematics
BMS College of Engineering,
Bengaluru - 560 019.
Period: - 5/08/2011 to 4/08/2012
- iii. Project fellow
Department of Mathematics,
Maharani's Science College for Women,
Bengaluru - 560 001.
Period: - 1/03/2010 to 5/08/2011
Title of the project: Analytical and Numerical Study of Ginzburg-Landau model arising in Porous Media Convection. [UGC Major Research Project No.F.38-125/2009(SR), Principal Investigator: Dr Vanishree R. K.].
- iv. Lecturer
Department of Mathematics,
St. Joseph's College of Arts and Science, (Autonomous)
Bengaluru - 560 027.
Period: - 24/07/2006 to 1/03/2010

2. EDUCATION:

- i. M.Phil. (Mathematics)
Sri.Venkateshwara University, Tirupati, (2009), (FIRST CLASS).
Title of Dissertation: "Computation of eigen values using Rayleigh-Ritz technique for Rayleigh-Bénard problem in Boussinesq-Stokes suspension using general boundary conditions"
- ii. M.Sc. (Mathematics)
Central College Campus,
Bangalore University, Bengaluru, (2006), (FIRST CLASS).
- iii. B.Sc. (Physics, Chemistry, Mathematics)
St. Joseph's College of Arts and Science, Bengaluru,
Bangalore University, Bengaluru, (2004), (FIRST CLASS).

3. PUBLICATIONS:

Study of Heat Transport in Bénard-Darcy Convection with g-Jitter and Thermo-Mechanical Anisotropy in Variable Viscosity Liquids, Transp. Porous Med. 92, 277–288(2012), (DOI: [10.1007/s11242-011-9901-z](https://doi.org/10.1007/s11242-011-9901-z)). [Co-Authors: Siddheshwar, P. G., Vanishree, R. K.]

4. INVITED/GUEST LECTURES:

- i. Resource person, Hands on session on Scilab programming at the three day faculty development program on “ICT and modelling in Applied Mathematics” during January 30 and 31, 2017 at BMS Institute of Technology and Management, Bengaluru, India.
- ii. Resource person, UGC sponsored workshop on “Scilab – Mathematical software for numerical computations”, a curriculum enhancement program on 21st February, 2015 at Mount Carmel College, Bengaluru, India.
- iii. Resource person, “Towards New Curriculum in Engineering Mathematics with Scilab and Maxima”, during December 26 and 27, 2014 at Jyothy Institute of Technology, Bengaluru, India.
- iv. Resource person, “Scilab Programming Workshop”, during December 15 and 16, 2014 at BMS institute of Technology, Bengaluru, India.
- v. Guest Lecture on “Scilab” on November 29, 2014 at Jyoti Nivas College (Autonomous), Bengaluru, India.
- vi. Resource person, Hands on session in Scilab for Faculty development program on “Computational techniques for research” held during 8th – 10th April 2013, at R. V. College of Engineering, Bengaluru, India.
- vii. Resource person, “Mathematics workshop on Scilab and Maxima” held during 16th and 17th November, 2012 by the Department of Mathematics, The Oxford College of Science, Bengaluru, India.
- viii. Resource person, “Training in Scilab” as a part of the REFRESHER COURSE during 25th April – 2nd May 2012, organised by the Department of Mathematics and Statistics in association with Academic Staff College, Christ University, Bengaluru, India.
- ix. Resource person, “Numerical Techniques”, (for MPhil and PhD students) during 10th – 30th January 2012, at the Department of Mathematics, Christ University, Bengaluru, India.

5. CONFERENCES:

- i. Presented the paper titled “Study of Rayleigh - Bénard convection in viscoelastic liquids using generalized Lorenz model” at the International Conference on Fluid Dynamics and its Applications held during 12th – 14th July, 2017 at BNM Institute of Technology, Bengaluru, India.
- ii. “Wolfram Technology conference – 2016” by Wolfram Research Inc. on 18th January 2016 at Hotel La Marvella, Bengaluru, India.
- iii. International conference on “Transformations in Engineering Education” during 6th – 8th January, 2015 organized jointly by BMS College of Engineering and Indo-US Collaboration for Engineering Education at BMS College of Engineering, Bengaluru, India
- iv. Presented the paper titled “Hybrid differential transform method for solving unsteady flow through porous media with boundary and inertial effects” at the International Conference on Emerging Trends in Fluid Mechanics and Graph Theory held during 16th – 18th August, 2012, at Christ University, Bengaluru, India.
- v. Presented the paper titled “Bénard-Darcy convection with non-uniform permeability and thermal conductivity” at the international conference on Fluid Dynamics and its Applications held during 20th – 22nd July, 2011 at BNM Institute of Technology, Bengaluru, India.
- vi. Presented the paper titled “Picard’s iterative method of solution for non-linear boundary value problems with variable coefficients: An illustration” at the 76th Annual Conference of the Indian Mathematical Society held during 27th – 30th December, 2010 at S. V. National Institute of Technology, Surat, India.

- vii. Presented the paper titled “Effect of variable permeability on forced convective heat transfer in a non-linear, non-Darcy flow with isoflux boundaries” at the international meet on Nonlinear Equations and Mathematical Modeling held during 20th – 22nd January, 2010 at BNM Institute of Technology, Bengaluru, India.
- viii. Presented the paper titled “Galerkin Method for good estimates of the given eigen value in a Bénard-Marangoni convection problem with general boundary conditions on velocity and temperature” in the 54th Congress of Indian Society of Theoretical and Applied Mechanics ‘An International meet’ held during 18th – 21st December 2009 at Netaji Subhas Institute of technology, Delhi, India.
- ix. Presented the paper titled “Linear stability analysis of convection in couple stress liquid” in the 53rd Congress of Indian Society of Theoretical and Applied Mechanics ‘An International meet’ held during 27th – 30th December 2008 at University College of Engineering (A), Osmania University, Hyderabad, A.P., India.

6. WORKSHOPS:

- i. FDP on “Practical Approaches to Engineering Courses from Industry Perspective”, during 22nd to 26th July 2019 organised by Department of Information Science and Engineering, BMS College of Engineering in association with Department of Computer Science and Engineering, M. J. P. Rohilkhand University, Bareilly, U. P. at BMS College of Engineering, Bengaluru, India.
- ii. GIAN course on “Hydrodynamic Stability and Dynamo theory” during 9th – 20th December, 2016 at National Institute of Technology, Warangal, India.
- iii. GIAN course on “Finite elements in fluids” during 1st – 5th August, 2016 at Indian Institute of Technology Madras, Chennai, India.
- iv. Workshop on “Research methodologies and LaTeX” by VTU e-learning centre during 26th – 28th May, 2016 at Don Bosco Institute of Technology, Bengaluru, India.
- v. Workshop on “Assessment of Quality of Teaching learning process” by IQAC-BMSCE on 29th July 2015 at BMS College of Engineering, Bengaluru, India.
- vi. Phase I of IUCEE-Microsoft Engineering Educators’ certification program during 9th – 12th January, 2015 at BMS College of Engineering, Bengaluru, India.
- vii. Workshop on “Effective Teaching and Learning” on January 6, 2015 as part of the pre-conference activity of ICTIEE 2015, jointly by BMS College of Engineering and Indo-US Collaboration for Engineering Education, at BMS College of Engineering, Bengaluru, India.
- viii. Workshop on “Learning platform for better outcomes” by ‘Inpods’ on January 5, 2015 as part of the pre-conference activity of ICTIEE 2015, jointly by BMS College of Engineering and Indo-US Collaboration for Engineering Education, at BMS College of Engineering, Bengaluru, India.
- ix. International workshop on “Computational Fluid Dynamics” during 23rd June – 5th July 2014 organised by Department of Mathematics, BMS College of Engineering, Bengaluru, at BMS College of Engineering, Bengaluru, India.
- x. ISTE workshop on “Fluid Mechanics” by Indian Institute of Technology, Kharagpur under NMEICT(MHRD) during 20th – 30th May, 2014 at BMS College of Engineering, Bengaluru, India.
- xi. Discovery Services and J-Gate training and awareness workshop on 15th March, 2014 organised by BMS College of Engineering and Informatics (India) Ltd. at BMS College of Engineering, Bengaluru, India.
- xii. Workshop on “Scilab for Engineering Applications” during 1st – 3rd January 2014 at R. V. College of Engineering, Bengaluru, India.

- xiii. National workshop on “How to use A-VIEW” on 23rd November, 2013 at BMS College of Engineering, Bengaluru, India.
- xiv. FDP on “Latex and Excel for Research – Hands on sessions” held during 2nd – 7th August 2013 organised by the Department of Medical Electronics, BMS College of Engineering, Bengaluru at BMS College of Engineering, Bengaluru, India.
- xv. FDP on “Biostatistics – Hands-on with SPSS and R Tools”, held during 8th – 12th July 2013, organised by the Department of Medical Electronics, BMS College of Engineering, Bengaluru at BMS College of Engineering, Bengaluru, India.
- xvi. Workshop on “Analytical and Numerical solutions of Non-linear differential equations” held during 18th – 19th March, 2011 at Amrita School of Engineering, Bengaluru, India.
- xvii. National workshop on “Scilab Advanced” held during 27th September – 1st October, 2010 at BhaskaracharyaPratishthana, Pune, India.
- xviii. Workshop on “Scilab” held during 13th – 15th September, 2010 at RashtreeyaVidyalaya College of Engineering, Bengaluru, India.
- xix. National workshop cum training programme on “Recent trends in fluid mechanics” held during 6th – 12th July, 2010 at Banaras Hindu University, Varanasi, India.
- xx. Workshop on “Python for Scientific Computing” held during 30th April and 1st May, 2010 at Sir. MVIT, Bengaluru, India.

7. Membership & Fellowship of Professional Bodies:

- i. **Life Member:** Indian Society of Theoretical and applied Mechanics.

8. Other Roles and responsibilities

- i. **Board of studies**, Department of Mathematics, BMS College of Engineering, Bengaluru, India. Period: 2015 to present
- ii. **Board of Examiners**, Department of Mathematics, St. Joseph’s College of Arts and Science (Autonomous), Bengaluru, India. Period: October 2007 - March 2010.
- iii. **Board of Studies**, Department of Mathematics, St. Joseph’s College of Arts and Science (Autonomous), Bengaluru, India. Period: December 2006 – March 2010.