

1. Profile of Dr. G.PALANI, Assistant Professor

Name : Dr. G. PALANI
Qualification : M.Sc., M.Phil., Ph.D.
Age : 45 years
Date of Joining in TN
Collegiate Educational Service : 09.07.2009
Date of joining DAGAC : 19.07.2010
Designation : ASSISTANT PROFESSOR WITH AGP 6000
Email address : gpalani32@yahoo.co.in
Specialization : Fluid Dynamics
Total Teaching experience : UG: 6 years PG: 5 years
Total Research experience : 17 years
Research field : Computational Fluid Dynamics
No. of research papers published : INTERNATIONAL JOURNAL : 47
Research guide for Ph.D. : YES
No. of M.Phil./Ph.D. Students : Guiding 4 Ph.D. scholars
Seminar/Workshops/Symposia
Participated and paper presented : 07

1. National Seminar on Changing Paradigms of Higher Education: XII Five Year Plan Initiatives, held on December 1, 2013 at St.Aloysius College (Autonomous), Mangalore, Karnataka.
2. XVIII Ramanujan Symposium on Recent trends in Dynamical systems and Mathematical Modelling, held at Ramanujan Institute for Advanced study in Mathematics, Chennai, India, during September 25-27, 2013.
3. Tenth ISHMT/ASME Heat and Mass transfer and Twenty first National Heat and Mass transfer conference held at IIT Madras, India during December 28-30, 2011.
4. National conference on Mathematical Applications and Techniques, SRM University, Kattankulathur, India, during January 5-6, 2007.

5. Sixth ISHMT/ASME Heat and Mass transfer and Seventeenth National Heat and Mass transfer conference held at Kalpakkam, India during January 5-7, 2004.
6. Sixteenth Annual Conference of the mathematical society, held at Banaras Hindu University, Varanasi, India, December 26-27, 2000.
7. Fourth ISHMT/ASME Heat and Mass transfer conference held at Pune, India during January 12-14, 2000.

Membership in Professional bodies : Life Member in Indian Society for Heat and Mass Transfer (ISHMT), INDIA.

Other Academic Activities : Attended 21 days refresher course conducted by Academic Staff College, university of madras.

Awards/Rewards/Fellowship/
any other Recognition : Brain Korea 21st Century Fellowship, Republic of Korea, 2008-2009.

LIST OF PUBLICATIONS

- Referred International/National Journals

1. J.Desdemona Kirubavathi and G.Palani , On Diffusion of chemically reactive species in convective flow past an inclined plate with variable surface temperature and variable mass diffusion, Communicated for Publication, International Journal of Applied Mechanics and Engineering.

2. G.Palani and A.Sarojini,Radiative heat flow past a semi-infinite vertical oscillating cylinder with constant heat flux, Accepted for Publication, Journal of Applied Fluid Mechanics.

3. G.Palani and J.Desdemona Kirubavathi, Natural convection from an inclined plate immersed in a temperature stratified medium, Communicated for Publication, International Journal of Mathematics and Engineering with computers.

4. G.Palani and U. Srikanth, Combined effects of viscous dissipation and MHD on free convection flow past a semi-infinite vertical plate with variable surface temperature in the presence of heat source, Accepted for publication, Journal of engineering thermophysics.

5. G.Palani, Kwang-Yong Kim, and E.J.Lalith Kumar, Heat Transfer Dusty Gas flow past a semi-infinite isothermal vertical cone, Communicated for publication, Journal of engineering thermophysics.

6. G.Palani and U. Srikanth, Double diffusive natural convection flow past a semi-infinite vertical plate with chemical reaction, Accepted for publication (Indian Journal of Science and Technology).

7. G.Palani and E.J.Lalith Kumar, Combined effects of Joule Heating and Viscous dissipation effects on a MHD free convective flow past a semi-infinite vertical cone with variable surface temperature, communicated for publication (Indian Journal of Science and Technology).

8. G.Palani and E.J.Lalith Kumar, Heat and Mass transfer effects on a free convective flow past a semi-infinite vertical cone with thermal radiation and chemical reaction, JP. Journal of Heat and Mass Transfer. 12(5), 103-129, 2015.

9. G.Palani and U. Srikanth,A Numerical study on unsteady free convection flow past a

semi-infinite vertical plate with variable surface temperature and temperature dependent viscosity, Accepted for publication, International Journal of Fluid Mechanics.

10. G.Palani and U. Srikanth, MHD Dusty fluid flow past a semi-infinite vertical plate with constant heat flux, Accepted for publication, International Review of Pure and Applied Mathematics.

11. G.Palani and E.J.Lalith Kumar, Free convection effects on a vertical cone with variable viscosity and thermal conductivity, Accepted for publication, Journal of Applied Mechanics and Technical Physics.

12. E.J. Lalithkumar and G.Palani, MHD Free convection flow of water at 4°C past a semi-infinite vertical cone with variable surface heat flux, Accepted for publication (International Journal of Fluid Mechanics).

13. G.Palani and A.R.Ragavan, Free convection flow past a vertical cone with chemical reaction in the presence of magnetic field, Journal of Engineering physics and thermophysics, Vol.88 No.5, 1256-1263,2015.

14. G.Palani, J.Desdemona Kirubavathi and Kwang-Yong Kim, Free convection effects on inclined plate with variable viscosity and thermal diffusivity, Thermophysics and Aeromechanics, Vol.No.21, No.1, pp.65-85, 2014. (SCI Journal)

15. G.Palani and J.Gnanambigai, Theoretical Solution of impulsively started vertical porous plate with variable temperature under the influence of magnetic field and thermal radiation, Journal of Engineering thermophysics, Vol.23, No.2, pp.129-136, 2014.

16. G.Palani, A.R.Ragavan and E.Thandapani, Effects of viscous dissipation on a MHD free convective flow past a semi-infinite vertical cone with variable surface heat flux, Journal of Applied Mechanics and Technical Physics, Vol.54, No.6, pp.960-973, 2013.(SCI Journal)

17. G.Palani, Influence of magnetic field by free convection flow past an impulsively started vertical cylinder in the presence of Dufour and Soret Effects, Journal of Engineering Thermophysics, Vol.21, No.4, pp.269-277, 2012. (SCI Journal)

18. E.Thandapani, A.R.Ragavan and G.Palani, MHD free convection flow over an isothermal vertical cone with temperature dependent viscosity, Journal of Thermophysics and Aeromechanics, Vol.19, No.3, pp.615-628, 2012 (SCI Journal).

19. P.Bala Anki Reddy, N. Baskara Reddy and G.Palani Convective flow past a vertical plate under the influence of magnetic field and thermal radiation subjected to a variable

surface temperature in the presence of heat source/sink, Journal of thermophysics and Aeromechanics, Vol.19, No.3, 489-501, 2012 (SCI Journal).

20. E.Thandapani, A.R.Ragavan and G.Palani, Finite Difference Solution of Unsteady Natural Convection Flow Past a Non Isothermal Vertical Cone Under the Influence of Magnetic Field and Thermal Radiation, Journal of Applied Mechanics and Technical Physics, Vol. 53, No. 3, pp. 408-421, 2012 (SCI Journal).

21. G.Palani and Kwang-Yong Kim, The influence of magnetic field and thermal radiation by natural convection past a vertical cone subjected to a variable surface heat flux, Applied Mathematics and Mechanics, vol.33, No.5, 605620, 2012. (SCI Journal).

22. G.Palani and Kwang-Yong Kim, Joule Heating and Viscous Dissipation Effects on MHD Flow Past a Semi-infinite Inclined Plate With Variable Surface Temperature, Journal of Engineering Thermophysics, Vol.20 No.4, pp.501-517,2011. (SCI Journal).

23. G.Palani and Kwang-Yong Kim, On the diffusion of a chemically reactive species in convective flow past a vertical plate, Journal of Applied Mechanics and Technical Physics, Vol.552, No.1, 57-66,2011 (SCI Journal).

24. G.Palani and Kwang-Yong Kim, Numerical study on a vertical plate with variable viscosity and thermal conductivity, Archive of Applied Mechanics, Vol.80, pp.711-725, 2010 (SCI Journal).

25. G.Palani and Kwang-Yong Kim, Free Convection of a dusty gas flow along a semi-infinite vertical cylinder, International Journal for Numerical Methods in Fluids, Vol.63, pp.517-532, 2010 (SCI Journal).

26. G.Palani and Kwang-Yong Kim, Viscous Dissipation effects on Heat transfer in flow past an inclined plate, Journal of Applied Mechanics and Technical Physics, Vol.51, No.2, pp.241-248, 2010 (SCI Journal).

27. Ibrahim A.Abbas and G.Palani, The effects of Magneto Hydrodynamic flow past a semi-infinite vertical plate with variable surface temperature, Applied Mathematics and Mechanics, Vol.31, No.3, pp.329-338,2010 (SCI Journal).

28. G.Palani and U. Srikanth, MHD Flow past a semi-infinite vertical plate with mass transfer, Nonlinear Analysis: Modelling and Control, Vol. 14, No. 3, 345356, 2009.

29. G.Palani and Kwang-Yong Kim, Effects of Mass transfer on free convective flow past a semi-infinite inclined plate with variable surface temperature, Journal of Engineering physics and thermo physics, Vol.82 No.5, pp.872-881, 2009.

30. G.Palani and Kwang-Yong Kim, Numerical Solutions of Unsteady flow past a semi-infinite inclined plate with temperature oscillations, *Journal of Mechanical Science and Technology*, Vol.23. No.6., pp.1710-1717, 2009 (SCI Journal).
31. G.Palani and Ibrahim A.Abbas, Free Convection MHD flow with thermal radiation from an impulsively started vertical plate, Non-linear analysis, *Modeling and control*, Vol.14, No.1, pp.73-84, 2009.
32. G.Palani and Kwang-Yong Kim, Heat and Mass Transfer effects on vertical plates, *Journal of Engineering, annals of Faculty of Engineering Hunedoara*, Tome VI (year 2008), Fascicule 1, pp.201-206.
33. G.Palani and Kwang-Yong Kim, The Effects of MHD on free convection flow past a semi-infinite isothermal inclined plate, *Journal of Engineering physics and thermodynamics*, Vol.81, No.4, 2008, pp.724-731.
34. G.Palani Convection Effects on flow past an inclined plate with variable surface temperatures in water at 4°C , *Journal of Engineering, annals of Faculty of Engineering Hunedoara*, Tome VI (year 2008), Fascicule 1, pp. 75-82.
35. G.Palani and P. Ganesan, Heat transfer effects on Dusty Gas flow past a semi-infinite inclined plate *Engineering Research*, Vol.71, No.3-4, 2007, pp.223-230 (SCI Journal).
36. G.Palani, viscous dissipative fluid flow past a semi-infinite vertical plate with variable surface temperature, *International Journal for Numerical Methods in Fluids*, Vol.55, No.12, 2007, pp.1157-1169 (SCI Journal).
37. G.Palani and P. Ganesan, Transient Unsteady natural convection MHD flows past a semi-infinite vertical plate with constant heat flux, *International Journal of Applied Mechanics and Engineering*, Vol.12, No.1, 2007, pp.125-134.
38. P. Ganesan and G.Palani, Unsteady free convection flow past a semi infinite isothermal vertical plate with mass flux, *Journal of Thermodynamics and Aeromechanics*, Vol.12, No.3, pp.379-386, 2005 (SCI Journal).
39. P. Ganesan and G.Palani, Viscous Dissipation Effects on Impulsively started isothermal inclined plate, *Journal of Energy, Heat and Mass Transfer*, Vol.27, pp.83-91, 2005.
40. P. Ganesan and G.Palani, Unsteady free convection flow of dusty gas past a semi-infinite inclined plate with constant heat flux, *International Journal of Applied Mechanics and Engineering*, Vol.9 No.3, pp. 483-492, 2004.

41. P. Ganesan and G.Palani, Finite Difference analysis of unsteady natural convection MHD flow past an inclined plate with variable surface heat and mass flux, International Journal of Heat and Mass Transfer, Vol.47, No.19-20, pp. 4449-4457, 2004 (SCI Journal).

42. P. Ganesan and G.Palani Transient free convection flow of a viscous dissipative fluid past a semi-infinite incline plate, International Journal of Applied Mechanics and Engineering, Vol.8, No.3, pp.395-402, 2003.

43. P. Ganesan and G.Palani, Natural convection effects on impulsively started inclined plate with heat and mass transfer, Heat and Mass transfer, Vol.39, No.4, 277-283, 2003 (SCI Journal).

44. P. Ganesan and G.Palani, Free convection effects on the flow of water at 4°C past a semi-infinite inclined plate, Heat and Mass Transfer, Vol.39, No. 8-9, pp.785-789, 2003 (SCI Journal).

45. P. Ganesan and G.Palani, Free Convection effects on impulsively started semi-infinite inclined plate with constant heat flux, Journal of Energy, Heat and Mass Transfer, Vol.24, pp.213-221, 2002.

46. P. Ganesan and G.Palani, The effects of Mass transfer on the MHD flow past on an impulsively started isothermal inclined plate, Journal of Energy, Heat and Mass Transfer, Vol.24, pp.1-12, 2002.

47. P. Ganesan and G.Palani, Natural convection effects on an impulsively started isothermal inclined plate, Acta Mechanica, 153, pp.127-132, 2002 (SCI Journal).

- International/National Conferences Proceeding

1. G.Palani, Finite difference solution of unsteady natural convection flow past an inclined plate under the influence of thermal radiation, Proceedings of the tenth ISHMT / ASME Heat and Mass transfer conference and twentyfirst National Heat and Mass transfer conference, December 28-30, 2010, IIT Madras, India.

2. E.Thandapani, A.R.Ragavan and G.Palani, A Numerical study of MHD free convection flow past a vertical cone with temperature oscillations, Proceedings of the tenth ISHMT / ASME Heat and Mass transfer conference and twentyfirst National Heat and Mass transfer conference, December 28-30, 2010, IIT Madras, India.

3. G.Palani, Numerical solution of unsteady natural convection effects on the flow of water at 4°C past a semi-infinite isothermal vertical plate, Proceedings of the eight ISHMT / ASME Heat and Mass transfer conference and Nineteenth National Heat and Mass transfer conference, January 3-5, 2008, Hyderabad, India.

4. P. Ganesan and G.Palani, Numerical Solution of Unsteady MHD flow past a semi-infinite isothermal vertical plate, Proceedings of the sixth ISHMT / ASME Heat and Mass transfer conference and Seventeenth National Heat and Mass transfer conference, January 5-7, 2004, Kalpakkam, India, pp. 184-187.
5. P. Ganesan and G.Palani, Convective flow over an inclined plate with variable heat and mass flux, Proceedings of the fourth ISHMT/ ASME Heat and Mass transfer conference and Fifteenth National Heat and Mass transfer conference, January 12-14, 2000 Pune, India, pp.323-329.

Conference/Workshop attended

1. A two day workshop on Applications of SCILAB, Ethiraj College for Women, Chennai, during 2nd and 3rd February, 2015.
2. National Seminar on Changing Paradigms of Higher Education: XII Five Year Plan Initiatives, held on December 1, 2013 at St.Aloysius College (Autonomous), Mangalore, Karnataka.
3. XVIII Ramanujan Symposium on Recent trends in Dynamical systems and Mathematical Modelling, held at Ramanujan Institute for Advanced study in Mathematics, Chennai, India, during September 25-27, 2013.
4. Tenth ISHMT/ASME Heat and Mass transfer and Twenty first National Heat and Mass transfer conference held at IIT Madras, India during December 28-30, 2011.
5. National Seminar on "Graph Theory and its Applications" Meenakshi College for Women, Kodambakkam, Chennai-24, on 8th September, 2010.
6. Three-Day skill-based training program on "e-LITERACY" organized by ICT Academy of Tamil Nadu in Association with University of Madras, during March 1-3, 2010.
7. National conference on Mathematical Applications and Techniques, SRM University, Kattankulathur, India, during January 5-6, 2007.
8. Sixth ISHMT/ASME Heat and Mass transfer and Seventeenth National Heat and Mass transfer conference held at Kalpakkam, India during January 5-7, 2004.
9. Sixteenth Annual Conference of the mathematical society, held at BanarasHindu University, Varanasi, India, December 26-27, 2000.
10. Fourth ISHMT/ASME Heat and Mass transfer conference held at Pune, India during January 12-14, 2000.

Trainings Undergone

1. Refresher Course in Mathematics, Batch XXVI conducted by UGC-ASC, University of Madras from 11.11.2010 to 01.12.2010.
2. Orientation (Intensive Training) programme conducted by UGC-ASC, University of Madras from 09.07.2009 to 05.08.2009