

## CURRICULUM VITAE

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### PERSONAL

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### EDUCATION

Ph.D. The University of Toledo, 1972  
M.S. Indian Institute of Technology, 1965  
B.S. (Honors) S.V. University, 1963

### PROFESSIONAL EXPERIENCE

9/1977-Present Cleveland State University, Cleveland, Ohio  
Fenn Distinguished Research Professor (2008)  
Professor of Mechanical Engineering (9/1982 - Present)  
Chairman and Professor of Mechanical Engineering (9/1985 - 9/1989)  
Associate Professor of Mechanical Engineering (9/1977 - 8/1982)

9/1974-8/1977 Gannon University, Erie, Pennsylvania  
Director and Assistant Professor of Mechanical  
Engineering

5/1973-8/1974 Chrysler Corporation, Highland Park, Michigan  
Research Engineer, Dept. of Aerodynamics of Rotating  
Machinery

5/1972-4/1973 Teledyne CAE, Toledo, Ohio  
Research Engineer, Department of Turbomachinery

8/1966-6/1968 Birla Institute of Technology, Ranchi, India  
Assistant Professor of Space Engineering and Rocketry

9/1965-6/1966 S. V. University, Tirupati, India  
Lecturer in Mechanical Engineering

CONSULTING

9/1976-6/1977 Consultant to Auto Clave Inc., Erie, Pennsylvania

6/1975-6/1976 Consultant to Zurn Industries Inc., Erie, Pennsylvania

3/1972-6/1972 Environmental Consultant to Earthview Inc., Toledo, Ohio

COURSES TAUGHT

Undergraduate:        Engineering Computations  
                               Engineering Measurements Theory and Laboratory  
                               Solar Energy Utilization  
                               Heat Transfer I and II  
                               Fluid Mechanics I and II  
                               Thermodynamics I and II  
                               Thermal Systems Design  
                               Heat Exchanger Design  
                               Finite Element Analysis

Graduate:                Continuum Mechanics  
                               Finite Elements I & II  
                               Turbomachinery  
                               Fluid Mechanics I and II  
                               Heat Transfer with Phase Change  
                               Variational Principles in Engineering  
                               Compressible Fluid Flow  
                               Heat Conduction  
                               Convective Heat Transfer  
                               Radiation Heat Transfer  
                               Boundary Layer Theory  
                               Advanced Thermodynamics  
                               Statistical Thermodynamics  
                               Mechanical Engineering Analysis  
                               Applied Engineering Analysis  
                               Viscous Fluid Flow I and II  
                               Jet Propulsion

PUBLICATIONS

## A.        BOOKS:

1. Authored seven chapters in Encyclopedia of Fluid Mechanics, 1994.
2. Turbomachinery Theory and Design, Marcel & Dekker Publishers, 2003
3. Applied Thermodynamics, currently under preparation

B. PAPERS IN REFEREED ENGINEERING EDUCATION JOURNALS/CONFERENCE PROCEEDINGS

1. Gorla, R. S. R. and Poulos, E. N. "A Design Course for Senior Mechanical Engineering Students," Proceedings of North Central ASEE Conference, April 1, Vol. 3B, 1993, pp. 12-18.
2. Poulos, E.N. and Gorla, R.S.R., "Integration of Design in Laboratory Course," Proc. North Central ASEE Conference, Vol. D1, 1994, pp. 1-5.
3. Gorla, R.S.R. and Poulos, E.N., "Integration of Design in Senior Undergraduate Fluid Mechanics Course," Proc. North Central ASEE Conference, 1995, pp. 256-261.

C. PAPERS IN REFEREED PROFESSIONAL JOURNALS AND PROFESSIONAL SOCIETIES

1. Lakshmi Narayana, P.A., Murthy, P.V.S.N, and Gorla, R.S.R., "Soret-driven thermosolutal convection induced by inclined thermal and solutal gradients in a shallow horizontal layer of a porous medium," Journal of Fluid Mechanics, 2008 (in print)
2. Gorla, R.S.R., Byrd, L. and Pratt, D., "Entropy Minimization in Micro-Scale Evaporating Thin Liquid Film in Capillary Tubes," Heat and Mass Transfer Journal, 2008 (in print)
3. Hossain, A. and Gorla, R.S.R., "Natural Convection Flow of Non-Newtonian Power-Law Fluid From a Slotted Vertical Isothermal Surface," International Journal for Numerical Methods in Heat and Fluid Flow, 2008 (in print)
4. Gorla, R.S.R., Chamkha, A.J. and Hossain, A., "Mixed Convection Flow of Non-Newtonian Fluid From a Slotted Vertical Surface with Uniform Surface Heat Flux," Canadian Journal of Chemical Engineering, 2008 (in print)
5. Gorla, R.S.R. and Hossain, A., "Natural Convection Flow of a Non-Newtonian Power-Law Fluid From a Slotted Vertical Surface with Uniform Surface Heat Flux," Journal for Mechanical Engineering Science, 2008 (in print)
6. Gorla, R.S.R., Chamkha, A.J. and Hossain, A., "Mixed Convection Flow of Non-Newtonian Fluid From a Slotted Isothermal Vertical Surface," ZAMM (Journal of Applied Mechanics and Mathematics), 2008 (in print)
7. Hossain, A., Asghar, S. and Gorla, R.S.R., "Buoyancy-driven Flow of a Viscous Incompressible Fluid in an Open-ended Rectangular Cavity with Permeable Horizontal Surfaces," Journal for Mechanical Engineering Science, 2008 (in print)
8. Mansour, M.A., El-Anssary, N.F., Aly, A.M. and Gorla, R.S.R., "Chemical Reaction and MHD Effects on Free Convection Flow Past an Inclined Surface in a Porous Medium," Journal of Porous Media, 2008 (in print)
9. Rashad, A.M., Bakier, A.Y. and Gorla, R.S.R., "Viscous Dissipation and Ohmic Heating Effects on MHD Mixed Convection along a Vertical Moving Surface Embedded in a Fluid

Saturated Porous Medium,” *Journal of Porous Media*, 2008 (in print)

10. Bakier, A.Y. and Gorla, R.S.R., “Effects of Thermophoresis and Radiation on Laminar Flow along a Semi-infinite Vertical Plate,” *Heat and Mass Transfer Journal*, 2008 (in print)
11. Shaw, S., Gorla, R.S.R., Murthy, P.V.S.N. and Ng, C.O., “Pulsatile Casson Fluid Flow Through a Stenosed Bifurcated Artery,” *International Journal of Fluid Mechanics Research*, Vol. 35, 2008 (in print)
12. Singh, A.K. and Gorla, R.S.R., “Heat Transfer Between Two Vertical Parallel Walls Partially Filled With Porous Medium: Use of Brinkman Extended Darcy Model,” *Journal of Porous Media*, Vol. 11, 2008, pp. 457-467.
13. Mansour, M.A., Gorla, R.S.R., El-Anssary, N.F. and Aly, A.M., “MHD Free Convective Heat and Mass Transfer From a Cone Embedded in a Porous Medium under the Effects of Chemical Reaction and Heat Generation,” *International Journal of Fluid Mechanics Research*, Vol. 35, 2008 (in print)
14. Mohammadein, A.A., Aissa, W.A. and Gorla, R.S.R., “The Effect of Radiation on Mixed Convection Flow Past a Stretching Surface,” *Heat and Mass Transfer Journal*, Vol. 44, 2008, pp. 1035-1040.
15. Gorla, R.S.R., Agarwal, V., Murthy, P. and Venkataraman, S., “Probabilistic Analysis of a Turbine Blade,” *International Journal of Turbo and Jet Engines*, Vol. 24, 2007, pp. 257-267.
16. Gorla, R.S.R. and Haddad, O., “Finite Element Heat Transfer and Structural Analysis of a Cone-Cylinder Pressure Vessel,” *International Journal of Applied Mechanics and Engineering*, Vol. 12, 2007, pp. 951-963.
17. Gorla, R.S.R. and Pratt, D., “Probabilistic Finite Element Analysis of a Pressure Vessel,” *International Journal of Applied Mechanics and Engineering*, Vol. 12, 2007, pp. 599-608.
18. Das, S.K., Warke, A.S. and Gorla, R.S.R., “Qualitative Study to Assess the Effect of Subsurface Barrier on Contaminant Transport in Groundwater: Computation of Moments,” *International Journal of Fluid Mechanics Research*, Vol. 34, 2007, pp. 210-223.
19. Mukhopadhyay, S., Layek, G.C. and Gorla, R.S.R., “MHD Combined Convection Flow Past a Stretching Surface,” *International Journal of Fluid Mechanics Research*, Vol. 34, 2007, pp. 244-257.
20. Abdou, M.M., El-Kabeir, S.M. and Gorla, R.S.R., “Effect of Mixed Thermal Boundary Conditions and Magnetic Field on Free Convective Flow About a Cone in Micropolar Fluids,” *International Journal of Fluid Mechanics Research*, Vol. 34, 2007, pp. 387-402.
21. Gorla, R.S.R., and Pratt, D. “Second Law Analysis of a non-Newtonian Laminar Falling Liquid Film along an Inclined Plate,” *Entropy Journal*, Vol. 9, 2007, pp. 30-41.
22. El-Kabeir, S.M.M. and Gorla, R.S.R., “MHD Effects on Natural Convection in a Micropolar Fluid at a Three Dimensional Stagnation Point in a Porous Medium,” *International Journal of Fluid Mechanics Research*, Vol. 34, 2007, pp. 145-158.

23. El-Amin, Abbas, I. and Gorla, R.S.R., "Effects of Thermal Radiation on Natural Convection in a Porous Medium," *International Journal of Fluid Mechanics Research*, Vol. 34, 2007, pp. 129-144.
24. Ghosh, N.C., Ghosh, B.C. and Gorla, R.S.R., "Hydromagnetic Flow of a Dusty Visco-Elastic Maxwell Fluid through a Rectangular Channel," *International Journal of Fluid Mechanics Research*, Vol. 34, 2007, pp. 20-41.
25. El-Kabeir, S.M.M. and Gorla, R.S.R., "Variable Viscosity Effects in Boundary Layer Heat Transfer to a Stretching Sheet Including Viscous Dissipation and Internal Heat Generation," *International Journal of Fluid Mechanics Research*, Vol. 34, 2007, pp. 42-51.
26. El Kabeir, S., Rashad, A. and Gorla, R.S.R., "Unsteady MHD Combined Convection over a Moving Vertical Sheet in a Fluid Saturated Porous Medium with Uniform Surface Heat Flux," *Mathematical and Computer Modelling Journal*, Vol. 46, 2007, pp. 384-397.
27. Saha, L.K., Hossain, M.A. and Gorla, R.S.R., "Effects of Hall Current on the MHD Laminar Natural Convection Flow from a Vertical Permeable Flat Plate," *International Journal of Thermal Sciences*, Vol. 46, 2007, pp. 790–801.
28. Gorla, R.S.R., Byrd, L. and Pratt, D. "Second Law Analysis for Microscale Flow and Heat Transfer," *Applied Thermal Engineering Journal*, Vol.27, 2007, pp. 1414-1423.
29. Gorla, R.S.R. and Gorla, S.R. "Probabilistic Finite Element Analysis of a non-Gasketed Flange," *International Journal of Turbo & Jet Engines* 2007 (in print)
30. Gorla, R.S.R., Nallappan, T., Byrd, L. and Pratt, D. "Entropy Minimization in Phase Change Energy Systems," *International Journal of Fluid Mechanics Research*, 2007 (in print)
31. Gorla, R.S.R., Takhar, H.S. and Chamkha, A. "Mixed Convection Boundary Layer Flow of a Micropolar Fluid along a Vertical Cylinder," *International Journal of Fluid Mechanics Research*, Vol. 33, 2006, pp. 211-229.
32. Takhar, H.S., Gorla, R.S.R. and Halim, M.A., "Momentum and Heat Transfer in a Buoyant Turbulent Swirling Jet," *International Journal of Fluid Mechanics Research*, Vol. 33, 2006, pp. 230-245.
33. Gorla, R.S.R., "Numerical Investigation of Unsteady Flow in Turbomachinery," *International Journal of Turbo & Jet Engines*, Vol. 23, 2006, pp. 1-14.
34. Gorla, R.S.R. and Pokkunuri, R., "Finite Element Heat Transfer and Structural Analysis of a Chemical Reactor Head," *Proc. Int Heat Transfer Conference*, 2006
35. Hossain, A., Bhowmick, S. and Gorla, R.S.R., "Unsteady Mixed Convection Boundary Layer Flow along a Symmetric Wedge with Variable Surface Temperature," *International Journal of Engineering Science*, Vol. 44, 2006, pp. 607-620.
36. El-Amin, M.E., El-Hakiem, M.A. and Gorla, R.S.R., "MHD Free Convection of a Large

- Prandtl Number Liquid Over a Non-isothermal Two Dimensional Body,” *International Journal of Fluid Mechanics Research*, Vol. 33, 2006, pp. 153-167.
37. Hossain, A., Ashgar, S. and Gorla, R.S.R., “Free Convection Flow and Heat Transfer Along a Heated Vertical Slotted Surface,” *International Journal of Fluid Mechanics Research*, Vol. 33, 2006 (in print)
  38. Hossain, A., Ashgar, S. and Gorla, R.S.R., “Mixed Convection Boundary Layer Flow Along a Vertical Stretched Surface with Uniform Surface Mass Transfer,” *International Journal of Fluid Mechanics Research*, Vol. 33, 2006 (in print)
  39. Mohammadein, S.A. and Gorla, R.S.R., “The Derivation of Principal Parameters for the Growth of a Vapor Bubble,” *International Journal of Fluid Mechanics Research*, Vol. 33, 2006, (in print)
  40. Hossain, A. and Gorla, R.S.R., “Effect of Viscous Dissipation on Mixed Convection Flow of Water Near its Density Maximum in a Rectangular Enclosure with Isothermal Wall,” *International Journal of Numerical Methods for Heat & Fluid Flow*, Vol. 16, 2006, pp. 5-17.
  41. Ibrahim, F.S., Hassanien, I.A. and Gorla, R.S.R., “Microstructure Effects on Mixed Convection Flow over a Non-Isothermal Vertical Surface,” *International Journal of Fluid Mechanics Research*, 2006 (in print).
  42. El-Amin, M.F. and Gorla, R.S.R., “Unsteady Free Convection in a Fluid Past a Vertical Plate Embedded in a Porous Medium,” *International Journal of Fluid Mechanics Research*, 2006 (in print)
  43. Gorla, R.S.R., Chamkha, A. and Takhar, H., “Mixed Convection in Non-Newtonian Fluids along a Vertical Plate in Porous Media with Constant Surface Heat Flux,” *International Journal of Fluid Mechanics Research*, Vol. 33, 2006, pp. 211-219.
  44. El-Kholy, S.A. and Gorla, R.S.R., “Influence of Magnetic Field on the Onset of Convection in a Porous Medium,” *International Journal of Fluid Mechanics Research*, Vol. 32, 2005, pp. 528-537.
  45. Gorla, R.S.R., “Probabilistic Heat Transfer and Structural Analysis of a Turbine Blade,” *International Journal of Turbo & Jet Engines*, Vol. 22, 2005, pp. 1-12.
  46. Gorla, R.S.R., “Unsteady Fluid Structure Interaction in Turbomachinery,” *International Journal of Turbo & Jet Engines*, Vol. 22, 2005, pp. 121-138.
  47. Gorla, R.S.R., Pai, S., Blankson, I., Tadepalli, S. and Gorla, S.R., “Unsteady Fluid Structure Interaction in a Turbine Blade,” *Proceedings of ASME Turbo Expo*, Paper GT2005-68157, June 2005, pp.1-10.
  48. El-Amin, M.F. and Gorla, R.S.R., “Non-Darcy Free Convection of Power-Law Fluids Over a Two-Dimensional Body Embedded in a Porous Medium,” *International Journal of Fluid Mechanics Research*, Vol. 32, 2005, pp. 21-38.
  49. El-Amin, M.F., El-Hakiem, M.A. and Gorla, R.S.R., “MHD Free Convection of a Large

- Prandtl Number Liquid Over a Non-Isothermal Two-Dimensional Body,” *International Journal of Fluid Mechanics Research*, Vol. 33, 2006, pp. 153-167.
50. Molla, M.M., Hossain, A. and Gorla, R.S.R., “Natural Convection Flow from an Isothermal Horizontal Circular Cylinder with Temperature Dependent Viscosity,” *Heat and Mass Transfer Journal*, Vol. 41, 2005, pp. 594-598.
  51. Takhar, H.S., Chamka, A.J. and Gorla, R.S.R., “Combined Convection Radiation Interaction along a Vertical Flat Plate in a Porous Medium,” *International Journal of Fluid Mechanics Research*, Vol. 32, 2005, pp. 139-156.
  52. Hossain, A., Saha, S.C. and Gorla, R.S.R., “Viscous Dissipation Effects on Natural Convection from a Vertical Plate with Uniform Surface Heat Flux Placed in a Thermally Stratified Media,” *International Journal of Fluid Mechanics Research*, Vol. 32, 2005, pp. 269-280.
  53. Gorla, R.S.R. and Gorla, N., “Probabilistic Finite Element Analysis in Heat Transfer,” *International Journal of Computational Methods in Engineering Science and Mechanics*, Vol. 6, 2005, pp. 77-84.
  54. Layek, G.C., Mukhopadhyay, S. and Gorla, R.S.R., “Stagnation Point Flow towards a Heated Stretching Sheet with Variable Fluid Viscosity,” *International Journal of Fluid Mechanics Research*, Vol. 32, 2005, pp. 538-548.
  55. Gorla, R.S.R., Byrd, L., Kost, D. and Ghorashi, B., “Rupture of Thin Liquid Films Utilizing Binary Fluid Mixtures,” *International Journal of Fluid Mechanics Research*, Vol. 32, 2005, pp. 662-674.
  56. Gorla, R.S.R., “Probabilistic Finite Element Analysis in Heat Transfer to a Nuclear Fuel Rod Bumper Support,” *Proc. Institution of Mechanical Engineers, Journal of Mechanical Engineering Science*, Vol.218, Part C, 2004, pp. 1499-1505.
  57. Hassanien, I.A., Moursy, N.M. and Gorla, R.S.R., “Mixed Convection Flow of Micropolar Fluid on a Horizontal Plate Moving in Parallel to a Free Stream,” *International Journal of Fluid Mechanics Research*, Vol. 31, 2004, pp. 417-429.
  58. Gorla, M.S.R. and Gorla, R.S.R., “Rheological Effects on Tear Film Rupture,” *International Journal of Fluid Mechanics Research*, Vol. 31, 2004, pp. 552-562.
  59. Molla, M.M., Hossain, A. and Gorla, R.S.R., “Conjugate Effect on Heat and Mass Transfer in Natural Convection Flow from an Isothermal Sphere with Chemical Reaction,” *International Journal of Fluid Mechanics Research*, Vol. 31, 2004, pp. 319-331.
  60. Gorla, R.S.R. and Kumari, M., “Nonsimilar Solutions for Free Convection in non-Newtonian Fluids along a Horizontal Plate in a Porous Medium,” *International Journal of Fluid Mechanics Research*, Vol. 31, 2004, pp. 116-130.
  61. Salem, A. and Gorla, R.S.R., “Probabilistic Finite Element Thermal Analysis Applied to a Water Tank Design,” *International Journal of Fluid Mechanics Research*, Vol. 31, 2004, pp. 131-142.

62. Gorla, R.S.R. "Probabilistic Heat Transfer and Structural Analysis in a Turbine Blade," *International Journal of Turbo and Jet Engines*, Vol. 21, 2004, pp. 115-125.
63. Gorla, R.S.R., "Probabilistic Analysis of Solid Oxide Fuel Cell Based Hybrid Gas Turbine System," *Applied Energy Journal*, Vol. 78, 2004, pp. 63-74.
64. Hassanien, I.A. and Gorla, R.S.R., "Nonsimilar Solutions for Natural Convection in Micropolar Fluids on a Vertical Plate," *International Journal of Fluid Mechanics Research*, Vol. 30, 2003, pp. 381-394.
65. Gorla, R.S.R., Viswanadham, S. and Byrd, L., "Heat Transfer in Thin Liquid Films Utilizing Binary Fluid Mixtures," *International Journal of Fluid Mechanics Research*, Vol. 30, 2003, pp. 473-484.
66. Gorla, R.S.R. "Probabilistic Analysis in Fluid/Structure Interaction," *International Journal of Engineering Science*, Vol. 41, 2003, pp. 271-282.
67. Gorla, R.S.R. and Kumari, M., "Free Convection in Non-Newtonian Fluids along a Horizontal Plate in a Porous Medium," *Heat and Mass Transfer Journal*, Vol. 39, 2003, pp. 101-106.
68. Gorla, R.S.R., "The Growth of Vapor Bubble and Relaxation between Two Phase Bubble Flow," *Heat and Mass Transfer Journal*, Vol. 39, 2003, pp. 97-100.
69. Gorla, R.S.R. and Gorla, N., "Probabilistic Finite Element Analysis in Fluid Mechanics," *International Journal of Numerical Methods in Heat & Fluid Flow*, Vol. 13, 2003, pp. 849-861.
70. Gorla, R.S.R. and Kurkov, A.P., "Gust Response Analysis of a Turbine Cascade," *International Journal of Turbo and Jet Engines*, Vol. 20, 2003, pp. 115-124.
71. Gorla, R.S.R., "Probabilistic Analysis of Gas Turbine Field Performance," *International Journal of Turbo and Jet Engines*, Vol. 20, 2003, pp. 133-140.
72. Gorla, R.S.R. and Turner, E.W., "Three Dimensional Navier-Stokes Analysis of a Rigid Wing Configuration," *International Journal of Turbo and Jet engines*, Vol. 20, 2003, pp. 125-132.
73. Gorla, R.S.R., Pai, S.S. and Rusick, J., "Probabilistic Analysis of a Hybrid Gas Turbine System," *ASME Turbo Expo Proceedings*, GT2003-38046, pp. 1-7.
74. Gorla, R.S.R. "Unsteady Mixed Convection due to Time-Dependent Free Stream Velocity," *Heat and Mass Transfer Journal*, Vol. 39, 2003, pp. 639-644.
75. Gorla, R.S.R., Poulos, E.N. and Byrd, L.W., "Effect of Electrostatic Field on Rupture of Thin Power-Law Liquid Film," *International Journal of Fluid Mechanics Research*, Vol. 29, 2002, pp. 714-724.
76. Hossain, M.A., Munir, M.S. and Gorla, R.S.R., "Combined Convection from a Vertical Flat

Plate with Temperature Dependent Viscosity and Thermal Conductivity," *International Journal of Fluid Mechanics Research*, Vol. 29, 2002, pp. 725-741.

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81. Gorla, R.S.R., "Rupture of Thin Power-Law Liquid Film on a Cylinder," *Trans. ASME, Journal of Applied Mechanics*, Vol. 68, 2001, pp. 294-298.
82. Gorla, R.S.R. and Kurkov, A.P., "Gust Response Analysis of a Turbine Cascade," *International Forum Aeroelasticity Structural Dynamics*, Vol. 3, 2001, pp. 65-76.
83. Mansour, M.A. and Gorla, R.S.R., "Combined Thermal and Diffusion Buoyancy Effects in Micropolar Fluids," *International Journal of Applied Mechanics and Engineering*, Vol. 6, 2001, pp. 551-572.
84. Gorla, R.S.R. and Byrd, L.W., "Effect of Electrostatic Field on Rupture of Thin Liquid Film on a Cylinder," *International Journal of Applied Mechanics and Engineering*, Vol. 6, 2001, pp. 151-164.
85. Gorla, R.S.R. "Unsteady Heat Transfer due to Time-Dependent Free Stream Velocity," *Proc. International Symposium on Advances in Computational Heat Transfer*, Vol. 2, 2001, pp. 681-688.
86. Gorla, R.S.R., A. Salem, M.A. Mansour and H.M. El-Hawary, "Chebyshev Approximation for Heat Transfer in an Axisymmetric Stagnation Flow on a Cylinder," *Proc. International Symposium on Advances in Computational Heat Transfer*, Vol. 2, 2001, pp. 559-566.
87. Mohammadein, A.A. and Gorla, R.S.R., "Heat Transfer in a Micropolar Fluid Over a Stretching Sheet with Viscous Dissipation and Internal Heat Generation," *International Journal of Numerical Methods for Heat and Fluid Flow*, Vol. 11, 2001, pp. 50-58.
88. Mansour, M.A. and Gorla, R.S.R., "Radiative and Thermal Dispersion Effects on Non-Darcy Natural Convection," *Journal of Porous Media*, 2001
89. Mohammadein, A.A., El-Hakim, M., Modather, M. and Gorla, R.S.R., "Joule Heating Effects on MHD Natural Convection on Inclined Plates in a Micropolar Fluid," *Journal of MHD and Plasma Research*, 2001

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97. Mansour, M.A. and Gorla, R.S.R., "MHD Natural Convection Radiation Interaction from a Vertical Plate Embedded in a Porous Medium," *Journal of MHD and Plasma Research*, Vol. 9, 2000, pp. 197-228.
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99. Mansour, M.A. and Gorla, R.S.R., "MHD Free Convective Flow of a Micropolar Fluid Over a Vertical Plate," *Journal of MHD, Plasma & Space Research*, Vol. 9, 2000, pp. 89-106.
100. Mansour, M.A. and Gorla, R.S.R., "Thermal Dispersion Effects on Non-Darcy Natural Convection with Internal Heat Generation," *Chemical Engineering Communications*, Vol. 177, 2000, pp. 177-181.
101. Gorla, R.S.R., "Transient Conjugate Forced Convection and Conduction in a Circular Pin under Radiative Effect," *Journal of Applied Mechanics and Engineering*, Vol. 5, 2000, pp. 579-591.
102. Gorla, R.S.R. and Byrd, L.W., "Rupture of Thin Micropolar Liquid Film on a Cylinder," *Chemical Engineering Communications Journal*, Vol. 182, 2000, pp.35-48.
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- Newtonian Fluids Along a Wedge with Variable Surface Heat Flux in a Porous Medium,” *Journal of Porous Media*, Vol. 3, 2000, pp. 181-184.
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363. Gorla, R. S. R. and Stearns, T., "Effect of Temperature Dependence of the Volumetric Expansion Coefficient on Combined Forced and Free Convection," *Letters Journal of Heat and Mass Transfer*, Vol. 2, 1975, pp. 427-432.
364. Gorla, R. S. R., "Non-Newtonian Nonsimilar Boundary Layer," *The Canadian Journal of Chemical Engineering*, Vol. 53, 1975, pp. 563-567.
365. Gorla, R. S. R., "Unsteady Boundary Layers over Rotating Blades," Presented at the ASME International Gas Turbine Conference, 1975, ASME Paper No. 75-GT-64, pp. 1-8.
366. Gorla, R. S. R., "Flow and Heat Transfer Characteristics of Wall Jets by the Method of Local Nonsimilarity," *Developments in Mechanics*, Vol. 8, 1975, pp. 517-533.
367. Gorla, R. S. R., "Heat Transfer Characteristics of a Two Dimensional Laminar Wall Jet with Non-Isothermal Surface Conditions," *International Journal of Engineering Science*, Vol. 12, 1974, pp. 812-820.
368. Gorla, R. S. R., "Some Heat Transfer Characteristics of a Wall Jet on a Rotating Disc," *Proceedings of the 5th International Heat Transfer Conference (ASME)*, Vol. 2, September 1974, pp. 25-29.
369. Gorla, R. S. R., "Unsteady Heat Transfer Characteristics of a Two Dimensional Wall Jet," *International Journal of Engineering Science*, Vol. 11, 1973, pp. 841-851.
370. Gorla, R. S. R. and Jeng, D. R., "Unsteady Stagnation Point Heat Transfer Due to Unsteady Free Stream Temperature," *Trans. ASME, Journal of Heat Transfer*, August 1973, pp. 419-421.
371. Gorla, R. S. R. and Jeng, D. R., "Numerical Evaluation of the Wall Gradient in Laminar Boundary Layer by Gaussian Quadratures when  $\sigma > 1$ ," *Ind. Journal of Technology*, Vol. 11, 1973, pp. 164-166.
372. Gorla, R. S. R. and Jeng, D. R., "Laminar Plane Wall Jet," *Development in Mechanics*, Vol. 6, August 1971, pp. 137-151.
373. Gorla, R. S. R. and Jeng, D. R., "Rapid Calculation for Convective Heat Transfer in Laminar Boundary Layer by Gaussian Quadratures," *Journal of Engineering Mathematics*, Vol. 4, Number 4, October 1970, pp. 319-329.
374. Gorla, R. S. R., "Some Fluid Dynamic Aspects of Film Cooling Employing Angular Injection," *Journal of the Institute of Engineers*, Vol. 47, Number 9, May 1967, pp. 427-435.
375. Gorla, R. S. R., "Film Cooling Employing Angular Injection," *Journal of the Institution of Engineers*, Vol. 47, Number 5, January 1967, pp. 158-167.

#### D. GOVERNMENT REPORTS:

1. "Probabilistic Analysis of Solid Oxide Fuel Cell Based Hybrid Gas Turbine System," NASA TM 211995, 2003.

2. "Probabilistic Analysis in Fluid/Structure Interaction," NASA TM 211374, March 2002
3. "Probabilistic Analysis of Gas Turbine Field Performance," NASA TM 211699, 2002
4. Gorla, R. S. R., "Probabilistic Analysis of Fluid Structure interaction," NASA Contractor TM, January 2002.
5. Gorla, R. S. R., "Gust Response in Turbomachinery," NASA Contractor TM, January 2001.
6. Gorla, R.S.R., "Heat Transfer in Thin Liquid Films," U.S. Air Force Report, (WL-TM-97-3016), September 1996.
7. Gorla, R. S. R., "Effect of Unsteady Free Stream Velocity and Turbulence on Gas Turbine Blade Heat Transfer," NASA Contractor Report 3804, June 1984.
8. Gorla, R. S. R., Coy, J. J. and Townsend, D. P., "Comparison of Predicted and Measured EHD Film Thickness in a 20-mm Bore Ball Bearing," NASA Technical Paper No. 1542, October 1979.

E. COMPANY REPORTS (reports published by industries):

Authored several reports at Chrysler Corporation in the Gas Turbine Automotive Power Plant Development. These became proprietary property of the company.

TECHNICAL PRESENTATIONS AT PROFESSIONAL CONFERENCES

1. "Probabilistic Analysis of a Turbine Blade," Proc. International Society for Air Breathing Engines Conference, September 2007, Beijing, China.
2. "Finite Element Heat Transfer and Structural Analysis of a Chemical Reactor Head," Proc. Int. Heat Transfer Conference, June 2006, Sydney, Australia.
3. "Unsteady Fluid Structure Interaction in a Turbine Blade," ASME Turbo Expo, Reno, Nevada, Paper GT2005-68157, June 2005, pp.1-10.
4. "Numerical Investigation of Unsteady Flow in Turbomachinery," International Conference of Computational Methods, Singapore, Dec 15-17, 2004
5. "Probabilistic Finite Element Analysis in Fluid Mechanics and Heat Transfer," International Conference on Applied Mathematics & Mathematical Physics, Shahjalal University of Science and Technology, Sylhet, Bangladesh, January 6, 2003.
6. "Probabilistic Analysis of Gas Turbine Field Performance," ASME/JSME Thermal Engineering Conference, Hawaii, March 16, 2003.
7. Gorla, R.S.R., "Probabilistic Analysis of Solid Oxide Fuel Cell Based Hybrid Gas Turbine System," ASME Turbo Expo, Atlanta, Georgia, June 2003.
8. "Probabilistic Analysis of Fluid Structure Interaction," ASME Turbo Expo,

Amsterdam, The Netherlands, June 2002.

9. "Unsteady Gust Response of Turbomachinery," AIAA conference, Spain, June 2001
10. "Nonlinear Theory of Tear Film Rupture," 8<sup>th</sup> Asian Congress of Fluid Mechanics, Shenzhen, China, December 1999.
11. "Mixed Convection-Radiation Interaction in Porous Media," 7th Asian Congress of Fluid Mechanics, Madras, December 1997.
12. "Mixed Convection in Porous Media," 25<sup>th</sup> Midwestern Mechanics Conference, South Dakota School of Mines and Technology, September 21, 1997.
13. "MHD Mixed Convection From a Continuous Porous Flat late," 11th International Conference of Mathematical and Computer Modeling, Georgetown University, Washington, D.C., March 1997.
14. "Navier-Stokes Solution for Unsteady Three-dimensional Flows," Proc. Numerical Methods in Fluid Mechanics Conference, 1996.
15. "Boundary Layer of a Power-Law Fluid in a Transverse Magnetic Field", Eighth Southeastern Conference on Theoretical and Applied Mechanics, University of Alabama, April 1996.
16. "Magnetohydrodynamic Braking", Twenty-Fourth Midwestern Mechanics Conference, Iowa State University, October 1995.
17. "Micropolar Boundary Layers," International Conference of Mathematical and Computer Modeling, Boston, July 1995 (Session Chairman)
18. "Conjugate Heat Transfer", The Sixth Asian Congress of Fluid Mechanics, Singapore, May 1995.
19. "Solar Collector Heat Transfer Problems by Finite Element Method," ASME-ISME Conference, Bombay, January 1994.
20. "Heat Transfer in Rotary Combustion Engine," International Symposium on Transport Phenomena and Dynamics of Machinery, Hawaii, May 1994.
21. "Micropolar Flow and Heat Transfer," International Conference of Mathematical and computer Modeling, University of California, Berkeley, 1993.
22. "The Promising Chemical Kinetics for the Simulation of Propane-Air Combustion with KIVA-II Code," AIAA-93-2189 (with Ying, S.J. and Kundu, K.P.)
23. "Variational Solution for Unsteady Heat Transfer Problems", ASME National Heat Transfer Conference, San Diego, August 1992.
24. "Heat Transfer in Wall Plumes of Power-Law Fluids," Asian Congress of Fluid Mechanics, Taejon, Korea, August 1992.

25. "Radiation Effect in Melting From Rotating Systems," International Conference on Heat Transfer in Turbomachinery, Athens, Greece, August 1992.
26. "Combined Convection From a Rotating Cone to Micropolar Fluids," Eighth International Conference on Mathematical and Computer Modeling, University of Maryland, College Park, Maryland, April 1991 (Session Chairman)
27. "Free Convection Similarity Solutions of a Non-Newtonian Fluid on a Horizontal Surface," Eighth International Conference on Mathematical and Computer Modeling, University of Maryland, College Park, Maryland, April 1991 (Session Chairman)
28. "Transient Thermal Response of Solar Receiver Aperture Plates," Sixth Miami International Symposium on Heat and Mass Transfer, Miami, Florida, December 1990
29. "Magnetohydrodynamic Free Convection Flow of a Radiating Gas Past a Vertical Surface," Ninth International Heat Transfer Conference, Jerusalem, Israel, August 1990
30. "Combined Convective Heat Transfer in Porous Media," Ninth International Heat Transfer Conference, Jerusalem, Israel, August 1990
31. "Heat Transfer in the Entrance Region of Non-Newtonian Fluids Flowing in a Pipe," International Conference on Mathematical and Computer Modelling, Chicago, August 1989
32. "Heat Transfer to a Non-Isothermal Rotating Disc in Non-Newtonian Fluids," Fourth Asian Congress of Fluid Mechanics, Hong Kong, August 1989
33. "Mixed Convection From a Horizontal Surface in Micropolar Fluids," Heat Transfer and Fluid Mechanics Institute, California State University, Sacramento, June 1989
34. "Heat Transfer to Turbulent Liquid Falling Films," Fifth Miami International Symposium on Multiphase Transport and Particulate Phenomena, December 1988
35. "Thermal Entrance Heat Transfer in Non-Newtonian Falling Liquid Films," AIChE National Meeting, November 1988
36. "Compressibility Effects in Foil Bearing Lubrication," Midwestern Mechanics Conference, Purdue University, 1987
37. "Damping Media for Aircraft Landing Gears," Midwestern Mechanics Conference, Purdue University, 1987
38. "Conjugate Heat Transfer in Falling Liquid Films," International Symposium on Multi-Phase Transport and Particulate Phenomena, Miami, Florida, December 1986, (Session Chairman)
39. "Unsteady Heat Transfer in Falling Liquid Films," ASME International Heat Transfer Conference, San Francisco, August 1986

40. "Effect of Free Stream Turbulence of Flow Separation," Seventh International Symposium on Air Breathing Engines (AIAA), Beijing, China, September 1985.
41. "Turbulent Flows of Non-Newtonian Fluids," Tenth Congress of Applied Mechanics, Toronto, Ontario, Canada, June 1985.
42. "Unsteady Flows in Biomechanical Systems," ASME Winter Annual Conference, New Orleans, Louisiana, December 1984.
43. "Fluid Mechanics in Foil Bearings," Proceedings of Engineering Science Conference, Virginia Polytechnic Institute, Blacksburg, Virginia, October 1984.
44. "Laminar Boundary Layer Flow Over a Rotating Blade," American Society of Civil Engineers (Engineering Mechanics Division), University of Wyoming, July 1984.
45. "Free Stream Turbulence Effects on Gas Turbine Heat Transfer," International Gas Turbine Congress, Tokyo, Japan, October 1983.
46. "Off-Design Performance Prediction of Steam Turbine Generators," ASME Power Engineering Conference, Indianapolis, Indiana, September 1983.
47. "Combined Convection in Solar Collectors," International Conference on Alternate Energy Sources, University of Miami, Florida, December 1982 (session chairman).
48. "Heat Transfer Micropolar Boundary Layer Flows," Society of Engineering Science Conference, University of Missouri, Rolla, October 1982 (session chairman).
49. "Free Stream Turbulence Effects on Turbomachinery Heat Transfer," National Aeronautical Laboratories, Bangalore, India, August 10-17, 1982.
50. "Effects of Free Stream Turbulence on Heat Transfer from a Circular Cylinder in Crossflow," ASME International Heat Transfer Conference in Munich, Germany, September 1982.
51. "Effects of Unsteady Free Stream Velocity and Free Stream Turbulence at Gas Turbine Blade Leading Edge," ASME International Gas Turbine Conference, London, England, April 1982.
52. "Buoyancy Effects in Solar Regenerators," International Conference on Alternate Sources, Miami, Florida, December 1981.
53. "Free Convection to Ellis Fluids from a Cylinder," 20th ASME National Heat Transfer Conference, Milwaukee, Wisconsin, August 1981.
54. "Laminar Wall Jet on a Non-Newtonian Fluid," 17th Midwestern Mechanics Conference, University of Michigan, Ann Arbor, Michigan, June 1981.
55. "Heat Transfer in a Periodic Boundary Layer near the Leading Edge of Gas Turbine Blade," ASME International Gas Turbine Conferences, Houston, Texas, March 1981.

56. "Unsteady Thermal Boundary Layers in Non-Newtonian Fluids," ASME National Heat Transfer Conference, Orlando, Florida, July 1980.
57. "Unsteady Mass Transfer to a Continuous Moving Sheet Electrode," International Physicochemical Hydrodynamics Conference, Washington, D. C., November 1979.
58. "Heat Transfer in Laminar Cylindrical Wall Jet," Midwestern Mechanics Conference, Kansas State University, September 1979.
59. "Magnetohydrodynamic Flow on a Rotating Disc," Midwestern Mechanics Conference, Kansas State University, September 1979.
60. "Interaction of Unsteady Thermal Boundary Layer with a Wall of Finite Thickness," Heat Transfer and Fluid Mechanics Institute Conference, Washington State University, Pullman, Washington, June 1978.
61. "Unsteady Laminar Axisymmetric Stagnation Flow," Midwestern Mechanics Conference, University of Illinois, Chicago, April 1977.
62. "Nonsimilar Boundary Layer Solutions for Wall Jet Flows," Southeastern Seminar on Thermal Sciences, University of Virginia, Charlottesville, Virginia, June 1976.
63. "Unsteady Boundary Layers over Rotating Blades," ASME International Gas Turbine Conference, Houston, Texas, April 1975.
64. "Flow and Heat Transfer in Wall Jets," Midwestern Mechanics Conference, University of Oklahoma, Norman, Oklahoma, March 1975.
65. "Some Heat Transfer Characteristics of a Wall Jet on a Rotating Disc," ASME International Heat Transfer Conference, Tokyo, Japan, September 1974.
66. "Laminar Plane Wall Jet," Midwestern Mechanics Conference, University of Notre Dame, Notre Dame, Indiana, August 1971.

#### FUNDED RESEARCH GRANTS

1. "Experimental Investigation of Heat Transfer in Curved Ducts," Research proposal funded by the Graduate School of Gannon University September 1976. Amount: \$4000.
2. "Unsteady Heat and Mass Transfer at a Stagnation Point in Non-Newtonian Fluids," Research proposal funded by CSU College of Graduate Studies, December 1977. Amount: \$4000
3. "Unsteady Heat Transfer in Turbomachinery," Research proposal funded by NASA, March 1979. Amount: \$67,512
4. "Expansion of PRESTO Computer Code for Off-Design Performance Calculation," Research proposal funded by NASA Lewis Research Center, November 1980 (with Dr. V. H. Larson). Amount: \$68,313

5. "Buoyancy Effects in an Inclined Solar Regenerator," Research proposal funded by CSU College of Graduate Studies, March 1981. Amount: \$2000
6. "Fluid Mechanics and Heat Transfer in Tribology Research," Research proposal funded by NASA Lewis Research Center, September 1982. Amount: \$235,203
7. "Unsteady Turbulent Boundary Layer Flows," Research proposal funded by CSU College of Graduate Studies, January 1983. Amount: \$3000
8. "Unsteady Flow and Heat Transfer in Turbomachinery," Research proposal funded by NASA Lewis Research Center, May 1984 to present date. Amount: \$241,200
9. "Hydraulic Media Evaluation for Landing Gear Applications," Research proposal funded by Cleveland Pneumatic Company, March 1986. Amount: \$26,240
10. "Two Phase Flow Heat Transfer under Microgravity Conditions," Research proposal funded by NASA Lewis Research Center, August 1986. Amount: \$63,258
11. "Transport Phenomena under Microgravity Conditions," (with Dr. S. N. Tewari) Research proposal funded by NASA Lewis Research Center, 1988. Amount: \$50,000
12. "Thermal Analysis of Aperture Plate for Space Station Freedom," Research proposal funded by NASA Lewis Research Center, 1989. Amount: \$90,000
13. "Turbulence Modelling of Separated Flows," Research proposal funded by NASA Lewis Research Center, 1990. Amount: \$42,000 Note: OAI approved only \$6,000 for this project.
14. "Application and Validation of Computational Aerodynamic and Aeroelasticity Codes," Research Proposal funded by U.S. Air Force, 1994, Amount: \$30,000.
15. "Fluid/Structure Interaction Analysis," Research Proposal funded by NASA, 2000-2001. Amount: \$55,000.
16. "Unsteady Probabilistic Analysis," Research Proposal funded by NASA, 2001-2004. Amount: \$190,000.
17. "Heat Transfer in Thin Films" Research Proposal funded by U.S. Air Force, 2002-2007, Amount: \$187,000.
18. "Heat Transfer in Two Phase Flows" Research Proposal funded by Parker Hannifin Corporation, 2008, Amount: \$76,260
19. Research Scholar Fellowship funded by L'Aquila University, 2008, Amount: \$20,000

#### MEMBERSHIP IN PROFESSIONAL SOCIETIES

1. American Society of Mechanical Engineers (ASME)
2. American Institute of Aeronautics and Astronautics (AIAA)
3. American Society of Engineering Education (ASEE)

#### HONORS AND AWARDS

1. Fenn Distinguished Research Professor, 2008
2. The Distinguished Technical Educator Award from the Cleveland Technical Societies Council on May 17, 2006.
3. Distinguished Faculty Teaching Award from Cleveland State University in 2004
4. Teaching Excellence Award from the Northeast Ohio Council on Higher Education in 2004
5. Distinguished Faculty Research Award from Cleveland State University in 1999
6. Editor-in-Chief, International Journal of Fluid Mechanics Research
7. Associate Editor of the Journal, International Journal of Turbo & Jet Engines
8. Associate Editor of the Journal, International Journal of Applied Mechanics and Engineering
9. Associate Editor of the Journal, Journal of MHD and Plasma Research
10. Associate Editor of the Journal, Journal of Pure and Applied Physics
11. Associate Editor of the Journal, Journal of Mechanics of Continua and Mathematical Sciences
12. Member, Review Panel to evaluate Proposals for Graduate Assistance in areas of National Need Program through United States Department of Education
13. Included in "Who's Who in the Midwest"
14. Included in "Who is Who in Technology Today"
15. Reviewer of research proposals submitted to National Science Foundation
16. Reviewer of Research Proposals Submitted to National Sciences and Engineering Research Council of Canada
17. Reviewer for International Journal of Engineering Science
18. Reviewer for ASME Journal of Heat Transfer
19. Reviewer for ASME Journal of Lubrication Technology
20. Reviewer for Applied Mechanics Reviews
21. Reviewer for AIChE Journal
22. Reviewer for the Journal of Electrochemical Society
23. Reviewer for the Canadian Journal of Chemical Engineering
24. Reviewer for the Canadian Journal of Physics
25. Reviewer for International Journal of Heat and Fluid Flow
26. Reviewer for Numerical Heat Transfer Journal
27. Reviewer for Numerical Methods in Heat and Fluid Flow
28. Reviewer for AIAA Journal of Thermophysics and Heat Transfer
29. Reviewer for Journal of Porous Media
30. Man of the Year Award by the American Society of Mechanical Engineers, (Erie Branch), 1977
31. "Leckie Award" in recognition of the Outstanding Graduate Student at the University of Toledo in 1971

#### CURRICULUM DEVELOPMENT

1. Developed Measurements I (MCE 391) Lab by organizing all the experiments

systematically, rewriting all the handouts and adding a lecture component besides laboratory classes.

2. Developed Solar Energy Utilization course (MCE 473/573).
3. Developed graduate courses on advanced thermodynamics and statistical thermodynamics, which were not taught for a long time at CSU (MCE 624).
4. Developed a graduate course on two-phase flow and heat transfer (MCE 644).
5. Developed a senior undergraduate elective course on Finite Element Methods with Computer Applications (MCE 465).

#### COMMITTEE WORK

1. Chairman of University Personnel Committee
2. Chairman of Distinguished Faculty Selection Committee
3. Member, University Research Council
4. Member, University Faculty Senate
5. Chairman of University Admissions and Standards Committee
6. Member, Semester Conversion Committee
7. Member, University Graduate Council
8. Member, University Graduate Petitions Committee
9. Member, University Undergraduate Petitions Committee
10. Member, University Student Affairs Committee
11. Member, Provost Search Committee
12. Member, Director of Admissions Search Committee
13. Member, Research and Creative Activities Committee
14. Chairman of Personnel Action Committee of the College of Engineering
15. Chairman of Graduate Affairs Committee of the College of Engineering
16. Member, Graduate Admissions Committee of the Mechanical Engineering Department
17. Member, Thermal Sciences Lab Committee of the Mechanical Engineering Department

MAJOR RESPONSIBILITIES AND ACCOMPLISHMENTS AS  
CHAIRMAN OF THE DEPARTMENT OF MECHANICAL ENGINEERING  
Cleveland State University  
(September 1985 - September 1989)

1. I had the complete budgetary and program responsibility
2. I was instrumental in strengthening the Graduate Program in the department. The number of graduate students was 120 in Fall 1988 compared with 30 in the Fall of 1985.
3. I have developed closer ties with industry. This has resulted in industrial contracts \$300,000/yr.
4. We recruited and hired two new faculty members.
5. For the first time in the history of our department, we had received a six-year term of accreditation by ABET.
6. Funded research has grown to a level of \$850,000/year from about \$20,000/year. The funding from local industries through Manufacturing Center to our department was \$300,000/year.
7. We modernized our undergraduate laboratory facilities. As a result of my initiative and proposal work, the department received new equipment valued at about \$1.5 million through the State of Ohio.
8. We have established a new CAD/CAM Laboratory.
9. I have established a travel fund for the faculty for their professional development.
10. I have participated in writing a proposal to NASA on-site graduate degree program. This proposal was funded by NASA.
11. I have developed an on-site graduate program at White Motor Co.