

BIO-DATA



DR. P K GOVINDAN POTTI

- **PhD**
 - Mechanical Engineering
Indian Institute of Technology (BHU), Varanasi in 2000.
- **B.Sc. (Engg.)**
 - Mechanical Engineering
Cochin University of Science and Technology in 1982.

Name : **Prof. Dr. P K GOVINDAN POTTI**
Age & Date of Birth : **58, 24-12-1959**
Current Position : Professor & HoD, ME
College of Engineering Perumon, Kollam
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Total Experience in Research/Teaching/Administration: 35 years

PROFESSIONAL/ACADEMIC/ADMINISTRATIVE ACTIVITIES

- Principal (full additional charge), College of Engineering and Management Punnapra (CEMP), Alappuzha
- Principal, Pankaja Kasthuri College of Engineering and Technology (PKCET), Kandala, Thiruvananthapuram
- Principal, UKF College of Engineering and Technology (UKFCET), Parippally, Kollam
- Head, Product Development Section (PDS) of Composite Pressurised Systems Group (CPSG) of Composites Entity (CMSE) in Vikram Sarabhai Space Centre (VSSC), Thiruvananthapuram of Indian Space Research Organisation (ISRO)
- Internal auditor training course in connection with ISO 9001-1994 implementation in Vikram Sarabhai Space Centre of Indian Space Research Organisation, during July 23-24, 1998.

- Course material provided to Indian Institute of Technology (IIT), Madras for their education module for training engineers from FRP (Fibre Reinforced Plastics) industries,
- International advisory committee member for the International Seminar on High Temperature Materials organized by Dep. of Mech. Engg., IT-BHU (February 2009).
- International advisory committee member for the 5th International Conference on Recent advances in Composite Materials organized by K L University in association with IIT(BHU), (Dec. 2016).
- M.Tech courses in ME & CSE started in College of Engineering, Punnapra, Alappuzha during my tenure as Principal.
- Chief Superintendent for conducting University Examinations.
- Presiding officer for GATE-2014 conducted at College of Engineering, Punnapra, Alappuzha(2014).
- AICTE Expert Visit Committee Member (2016).
- External examiner for Ph.D Viva-Voce examination as well as for the evaluation of JRF to SRF conducted in the School of Material Science and Technology of IIT(BHU), Varanasi.
- Membership of Professional Bodies :
 - (i) Astronautical Society of India (ASI)
 - (ii) Indian Association for Quality and Reliability (IAQR)
 - (iii) Indian Society for Advancement of Materials and Process Engineering (ISAMPE)
- Member in the following committees:
 - (a) Test review committee
 - (b) Non-Conformance Review Board Sub-Committee
 - (c) Technical Evaluation Committee
 - (e) Local Salvage Committee
- Guided students from Department of Mechanical Engineering, T.K.M. College of Engineering, Kollam (Kerala University) for their **B.Tech project work** on “ Acceptance of Kevlar-49 Fibre”

- Guided M.Tech student from Department of Civil Engineering, College of Engineering, Trivandrum (Kerala University) for **M.Tech. Project work** on “Tensile Fracture of Metallic Materials under Cryogenic Temperatures” .

TRAINING/WORKSHOP/CONFERENCE PARTICIPATION

- Internal auditor training course in connection with ISO 9001-1994 implementation in Vikram Sarabhai Space Centre of Indian Space Research Organisation, during July 23-24, 1998.
- “Composites 94” conference held at Vikram Sarabhai Space Centre of Indian Space Research Organisation, Thiruvananthapuram, Kerala, India, during February 17-18, 1994 and presented a paper on “Quality Control Tests on Raw Materials for Composite Products in Space Applications”.
- Indo-German workshop on “High Temperature Fibre Composite Materials”, organized by the Department of Mechanical Engineering, Institute of Technology, Banaras Hindu University, Varanasi, India during September 11-15, 2000 and presented a paper on “Notched Tensile Strength of Carbon-Carbon Composite Laminates”.
- 2nd International Conference on Recent Advances in Composite Materials organized by Dept. of Mechanical Engg., Institute of Technology, Banaras Hindu University, Varanasi at Habitat Centre, New Delhi (Feb.20-23,2007).
- Indo-Japan Workshop on Microstructural Performance of High Temperature Composites, organized by Dept. of Mechanical Engg., Institute of Technology, Banaras Hindu University, Varanasi (Jan. 15-17, 2008).
- International Seminar on High Temperature Materials organized by Dept. of Mechanical Engg., Institute of Technology, Banaras Hindu University, Varanasi (Feb.23-25 , 2009).
- International Seminar on Recent Advances in Composite Materials held at ENSIL, University of Limoges, Limoges, France (Dec. 13-15, 2010).
- International Seminar on Recent Advances in Composite Materials held at the International Centre, Goa (Feb.18-21, 2013).
- Workshop on ‘Strategic Planning for Engineering Colleges’ organized by College of Engineering Vadamangalam (Feb. 18,2016).
- Discussion meeting of TEQIP-III held at MASCOT HOTEL,Thiruvananthapuram on 21/01/2016 organised by SPFU, Kerala.
- PMKVY Workshop held at Diamond Jubilee Hall, Engineering College Campus , Thiruvananthapuram organized by AICTE.

PUBLICATIONS

INTERNATIONAL JOURNALS

1. **Govindan Potti, P.K. et.al.**, "Notched Strength of Fabric Composite Plates with a Circular Hole", **Zeitschrift fur Metallkunde**, **89**, 642-648 (1998).
2. **Govindan Potti, P.K. et.al.**, "Tensile Fracture Strength of Graphite/Epoxy Laminates Containing Central Holes and Cracks", **Advanced Composite Letters**, **7**, 143-147 (1999).
3. **Govindan Potti, P.K. et.al.**, "A New Approach in Utilising Inherent Flaw Model for Tensile Fracture of Composite Laminates with a Circular Hole", **Advanced Composite Letters**, **8**, 119-131 (1999).
4. **Govindan Potti, P.K. et.al.**, "Fracture Strength of Tensile Loaded Graphite-Epoxy Laminates Containing Cracks and Circular Holes", **International Journal of Plastics, Rubber and Composites**, **28**, 26-29 (1999).
5. **Govindan Potti, P.K. et.al.**, "Tensile Fracture Strength of Cracked Composite Laminates", **Zeitschrift fur Metallkunde**, **90**, 376-383, (1999).
6. **Govindan Potti, P.K. et.al.**, "Improved Inherent Flaw Model for Tensile Fracture of Cracked Composite Laminates", **Advanced Composite Letters**, **8**, 227-230 (1999).
7. **Govindan Potti, P.K. et.al.**, "Comparison of Models for the Notched Strength of CFRP Laminates", **International Journal of Plastics, Rubber and Composites**, **28**, 463-466 (1999).
8. **Govindan Potti, P.K. et.al.**, "Notched Strength Evaluation of Fabric Laminates having a Circular Hole", **Advanced Composite Materials**, **9**, 47-58 (2000).
9. **Govindan Potti, P.K. et.al.**, "Notched Tensile Strength Evaluation of Long- and Short-fibre Reinforced Polyamide", **International Journal of Theoretical and Applied Fracture Mechanics**, **33**, 145-152 (2000).
10. **Govindan Potti, P.K. et.al.**, "Notched Strength of Carbon Fibre/Epoxy Composite Laminates with a Circular Hole", **Forschung im Ingenieurwesen**, **65**, 295-300 (2000).
11. **Govindan Potti, P.K. et.al.**, "Fracture Strength of Graphite/Epoxy Center-Notched Tensile Strips" **Journal of Material Science Letters**, **19**, 911-914 (2000).
12. **Govindan Potti, P.K. et.al.**, "Tensile Fracture of Fibre Reinforced Metal Laminates Containing a Circular Hole", **The Aeronautical Journal**, The Royal Aeronautical Society, London, **104**, 47-51 (2000).

13. **Govindan Potti, P.K. et.al.**, "Notched Tensile Strength of Randomly Oriented E-glass Composite Laminates", **Materials Science and Engineering A**, **282**, 59-66 (2000).
14. **Govindan Potti, P.K. et.al.**, "Residual Strength of Composite Laminates with a Center Crack under Tension", **Advanced Composite Materials**, **9**, 131-143 (2000).
15. **Govindan Potti, P.K. et.al.**, "Tensile Fracture of Boron/Aluminum Composite Laminates", **Forschung im Ingenieurwesen**, **66**, 24-30 (2000).
16. **Govindan Potti, P.K. et.al.**, "Notched Tensile Strength of Various Fibre Reinforced Metal Laminates", **Advanced Composite Materials**, **9**, 187-206 (2000).
17. **Govindan Potti, P.K. et.al.**, "Residual Strength of Aluminum-Lithium Alloy Center Surface Crack Tension Specimens at Cryogenic Temperatures", **Cryogenics A**, **40**, 789-795 (2000).
18. **Govindan Potti, P.K. et.al.**, "Fracture Strength of Composite Laminates Containing Surface Notches", **Advanced Composite Materials**, **10**, 29-37 (2001).
19. **Govindan Potti, P.K. et.al.**, "Tensile Fracture of Boron/Aluminum Laminates with Holes and Slits" **Materials Science and Engineering A**, **301**, 244-252 (2001).
20. **Christopher, T., Rama Sarma, B.S.V., Govindan Potti, P.K., Nageswara Rao, B. and Sankaranarayananasamy, K.**, "A Comparative Study on Failure Pressure Estimations of Unflawed Cylindrical Vessels", **International Journal of Pressure Vessels and Piping**, **79**, 53-66 (2002).
21. **Rama Sarma, B.S.V., Govindan Potti, P.K., and Nageswara Rao, B.** "Failure Behaviour of an Ultra High Strength Low Alloy Steel", **Material Science and Technology**, **18**, 787-798 (2002).
22. **Govindan Potti, P.K. et.al.**, "Notched Tensile Strength of Carbon/Epoxy Composites: A Statistical Approach", **The Aeronautical Journal**, The Royal Aeronautical Society, London, **103**, No.1083, 263-269 (2004).

INTERNATIONAL SEMINAR

1. **Govindan Potti, P.K. and Santhamma, K.** , "Probabilistic Approach for Fixing Optimum Thickness of a Rocket Motor Chamber ", **Proceedings of the 55th IAC (International Astronautical Congress)**, Vancouver, Canada (2004).
2. **Govindan Potti, P.K.**, "Comparison of Models for Notched Strength Prediction of Composite Laminates", **Proceedings of the 3rd International Conference on Recent Advances in Composite Materials**, Limoges, France (2010).

NATIONAL TECHNICAL BULLETIN

1. **Govindan Potti, P.K.**, *“Non-destructive testing and fracture mechanics”* in **IMAGE, Technical Bulletin of Indian Society for Non-Destructive Testing**, Trivandrum Chapter, Vol.12, No.1(1993).
2. **Govindan Potti, P.K., Rama Sarma, B.S.V. and Nageswara Rao, B.** “Application of Fracture Mechanics in Non-Destructive Evaluation of Structural Components”, in **IMAGE, Technical Bulletin of Indian Society for Non-Destructive Testing**, Trivandrum Chapter, 20-24, **21**, No.4 (2003).

NATIONAL SEMINAR / WORKSHOP

1. **Govindan Potti, P.K. and K.S.Ragunathan**, *“Quality Control Tests on Raw Materials for Composite Products in Space Applications”*, in “Aerospace Composites - Challenges and Opportunities”, **Proceedings of the “Composites 94” conference**, Interline Publishing, Bangalore, India, Vol. II, 476-491 (1994).
2. **Govindan Potti, P.K. et.al.**, *“Notched Tensile Strength of Carbon-Carbon Composite Laminates”*, *High Temperature Fibre Composite Materials*”, **Proceedings of the Indo-German workshop**, Allied Publishers, New Delhi, India, 44-56 (2000).
3. **Govindan Potti, P.K. et.al.**, *“Residual Strength of Fibre Reinforced Composite Laminate containing Circular Hole”* **Proceedings of International Conference on Recent Advances in Composite Materials**, Allied Publishers Pvt. Ltd., New Delhi, 397-402 (2007).

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