

## **Jagdish P. Sharma**

1. Name and Academic Rank: Jagdish P. Sharma – Adjunct Professor of Mechanical Engineering.
2. Degrees with fields, institutions and dates:
  - a. B.E. (Hons), Mechanical Engineering, Jabalpur University, June 1960.
  - b. Post Graduate Diploma in Mechanical Engineering Design, Imperial College, London, UK, 1969.
  - c. Ph.D., Mechanical Engineering, IIT Delhi, June 1972.
3.
  - a. Number of years service on this faculty including present: 7
  - b. Date of original appointment and rank: August 12, 1998. Visiting Asst. Professor of Mechanical Engineering; August 1999, Visiting Professor of Mechanical Engineering; August 2002, Adjunct Professor of Mechanical Engineering.

4. Other related experience:

1994-1995 Visiting Professor of Mechanical Engineering (University of Mankato, MN)  
1987-1993 Professor of Mechanical Engineering (Northern Illinois University, DeKalb, Illinois)  
1986-1987 Adjunct Professor of Design (University of Minnesota, Minneapolis, MN)  
1983-1985 Visiting Professor of Mechanical Engineering (UNC- Charlotte, NC)  
1980-1983 Professor, Director & Chair of NORAD funded National Center of ITMMEC, IIT Delhi; Adjunct Professor Technical University, Trondheim, Norway and Director of Industry-Center Relations.  
1970-1978 Asst. Professor of Mechanical Engineering, IIT Delhi  
1964-1970 Lecturer in Mechanical Engineering, IIT Delhi

Other employment:

1993-1994 Project Director cum President: Spectrum-IMES India, New Delhi (Indo-Itali-US Jt.V.)  
1996 Director-Nutek India (Wireless Communication Enterprise)  
1997 Consultant Advisor: DANIDA, Denmark assisted project for machine tool design)  
1985-1987 Technical Manager: Tribology of Disk Drive (Data Storage Products-Minneapolis, MN)  
1984-1985 Visiting consultant: Technical Consultants Inc. Charlotte:(Non-destructive Diagnostics)  
1978-1980 Chief Design Engineer, IIT Delhi  
1972-1974 Chief Technical Controller, Graphite India, New Delhi

5. Consulting and Patents:

- a. Consulting  
Caterpillar, Inc; Borge-Warner; Hougzong-China (2003); Caterpillar; Borge-Warner; Toro (2002); Caterpillar; Borge-Warner; Perkin Henifen, Heatcraft, (2001); HMC; Whirlpool, Ericsson (2000); Nutek India Ltd., (1997); I.Me.S. S.p.A, Bari, Italy (1996);

Toro, Inc. Minneapolis, MN, USA; Surface Enhancement Technology Inc, Edina, MN, ('94,95); Camcar Textron Inc. Rockford, IL, ('91,92,93); Kettlestrings Gear Engine, Inc., Naperville, IL, ('92,93); Illinois Technology Center, (1987-92); Hightech Coatings Inc., Naperville, IL, (1991); Ericsson Bearing Division, Aurora, IL, Ramtec Gears, Inc., Naperville, IL, (1990); Elgin Engineers, Inc., Elgin, IL, (1987); Denam, Inc, NC, USA; (1985); Digital Systems, Colorado Spring, CO, Consolidated Diesel Engines, Whitaker, NC (1984-85); Materials Research Inc., Salt Lake City, UT (1983); Oil Rig Failure SINTEF, Norway (1983); (In India: EME Command, Department of Defense, (1982), Bharat Heavy Electricals (1982-83); Badarpur Thermal Power Project; Calico-Mills: Khosla Compressor; Copper Corporation (1976,80).

- b. Patents: US Patent #'s: 4776202(Oct.'88); 4821578(Apr.'89); 4837923(Jun.'89); 4860572(Aug.'89); 4863809(Sep.'89); 4975398(Dec.'90); 4987766(Jan.'91); Europe #'s 8171001/WEC (Dec.'88); 88311833.3(Jan.'89).

6. State(s) in which registered professionally: none.

7. Principle publications of the last five years:

- a) "Role of Customers in Development of Innovative Process and Product", S.N. Dwivedi and J.P. Sharma, *International Journal of Computer Applications Technology*, Vol. 1-3, pp. 24-36, 2002.
- b) "Effective Quality Integrated Systems and Networking for Success of Medium Enterprise in the Global Market", J.P. Sharma and A.K. Raman, Paper presented by Raman *The 3rd West Lake Intl. Conference on Small & Medium Business*, Hangzhou, Zhejiang Province, China, October 26-28, 2002.
- c) "Integration of Total Quality Practices in Industry Business", J.P. Sharma, and A.K. Raman, Submitted to *International Journal of Computer Applications in Technology*, 2003.
- d) "Stability Modeling of Human Leg with Increasing Age", L. Ching Sia and J.P. Sharma, Presented by Lim Ching Sia at *Mississippi Academy. of Sciences*, Tupelo, February 2001.
- e) "Integrated Agility and Quality in Manufacturing Need of Small and Medium Business," A.K. Raman, J.P. Sharma, and S.N. Dwivedi, *Proc .of Second West Intl. Conf. on Small and Medium Business*, pp. 116-141, Zhejiang University of Technology, Hangzhou, China, Oct. 2000.
- f) "Studies on Airport Noise Diagnostics for Interfacing Space Sense-System." Presented at *MSCI Conference at the University of Mississippi*, University of Mississippi, January 31, 2000.
- g) "Integrated Agility and Quality in Manufacturing Business", S.N. Dwivedi, A.K. Raman and J.P. Sharma, *International Journal of Agile Manufacturing*, Vol. 2, No. 2, pp.231-245, 1999.
- h) "Role of Customers in Process and Product Development", S.N. Dwivedi, A.K. Raman, and J.P. Sharma, *International Journal of Advanced Manufacturing Systems*, Vol. 2, No. 1, pp.87-104, 1999.
- i) "Integrated Agility and Quality in Manufacturing Business", S.N. Dwivedi, A.Raman and J. P. Sharma, *International Journal of Agile Manufacturing*, Vol. 2, No. 2, pp .231-245, 1999.

8. Scientific and professional societies of which a member:

- a) ASME, American Society of Mechanical Engineers.

- b) I. Mech. E., India.
- c) Agile Manufacturing Institute.
- d) International Tribology Council.

9. Honors and Awards:

- a) Norwegian Fellowships: Six (1976, 78, 79, 80, 82, 83);
- b) Japanese: One (1979);
- c) Commonwealth: Three (1970, 72, 76);
- d) German: One (1974);
- e) Colombo: One (1967);
- f) Award for Industry-University (IIT Delhi) Interaction (1983)
- g) Control Data Corporation Award, Minneapolis, MN (1985)

10. Institutional and Professional Service in the Past Five Years:

- a) Journal Reviewer for the following: ASME Journal, ASLE Transaction, International Journal of Agile Manufacturing, IEEE Journal on Magnetic Recordings & Mechanics, ASM Journal, Tribology International, Manufacturing Engineering Journal, International Journal on Wear.
- b) Industry partnership for projects; exploring inter-university partnership projects.

11. Professional Development Activities in the Past Five Years:

- Participated in discussions arranged by Professional Society of Productivity Engineers (Delhi: December 20, 1999; Bhopal: January 4, 2000).
- Editorial Review Board: IJAM, International Journal on Agile Manufacturing (1996- present); IJAMS, International Journal on Advanced Manufacturing Systems (1996- present); Editor of International Journal on Diagnostics, Process & Productivity (1992-94); Journal on Wear (1974-90); Tribology International (1975-86), Conducting research on several externally funded projects.
- Addressed Indo-German Workshop on Mechatronics at VIT in July 2003 and invited Co-Chair of International Conference on Mechatronics at VIT (2004).