

RESUME

Name:

Dr. Sharad Dattatray Patil



Office Address:

Assistant Professor, Mechanical Engg. Dept.,
RIT Sakharale, Tal- Walwa,
Dist – Sangli, Pin-416302
Phone (O) 02342- 230329 (M) 9970700700
www.ritindia.edu

Permanent Address:

A/P-Dhavali,
Tal- Walwa,
Dist – Sangli, Pin-416302
Phone (R) 02342- 245513 (M) 9970700875
Email: p2sharad@yahoo.com
sharad.patil@ritindia.edu

Personal:

Date of Birth-17 July 1979
Nationality- Indian
Languages- Marathi Hindi English
Hobbies- Reading, Swimming, Playing Cricket.

Computer Knowledge:

AutoCAD2000, Smart Draw, MS office, FORTRAN, MATLAB, ANSYS
Fluent, COMSOL

Education:

M.E. (Mech.) PhD - Heat Power Engg

Examination	Year	Board/University	% Marks	Class
S.S.C.	1994	Kolhapur	79.28	Distn.
H.S.C.	1996	Kolhapur	76.17	Distn.
B.E. (Mech)	2000	Shivaji University	74.20	Distn.
GATE	2001	HRD India	90.10	-
M.E. (Mech)	2005	Shivaji University	73.96	Distn.
Ph D (Mech)	2014	IIT Khargpur	-	-

Countries Visited

Tokyo, Japan

Subject Flair

CFD, Heat Transfer and Thermodynamics, I C Engines, Automobile Engineering

Ph D work Title

‘Theoretical Studies on Metal Hydride Based Systems for Hydrogen Storage and Water Pumping’

Objective of this work is to study heat and mass transfer aspects in metal hydride based hydrogen storage reactor. The reactor is analyzed from entropy generated and time required for absorption and desorption of hydrogen into the given reactor point of view. Also techno economic analysis of metal hydride based water pump models is presented.

M.E. Dissertation:

“The Effect of Fuel Properties on Emissions of Single Cylinder Direct Injection Diesel Engine”.

Objectives of this test program was to determine effect of percentage addition of oxygenated additives by volume to diesel fuel and to further investigate the effect of fuel properties on emissions on a laboratory diesel engine to obtain regulated emission norms.

Work Experience:

1. Working as Assistant Professor since July 2004 at R.I.T. Rajaramnagar, Sakharale. (Sangli)
2. Worked as Teaching Assistant at Govt, College of Engg. Karad for 2 years during M. E. program
3. Worked as Teaching Assistant at IIT Kharagpur for 3 years during Ph D programme

Publications:

International Journal	02
International Conference	06
National Conference	04

Administrative Experience:

Worked as Head, Technical Committee in National conference for Post Graduates held on 1st June 2015 at RIT Sakharale

Working as Head of Program (HOP) M Tech Mechanical Heat Power Engg

Working as department level Thermal Engineering section Modul Coordinator

Worked as department level R & D Coordinator

Worked as department Time Table Incharge for 5 years

Worked as Class Monitor for 6 years

Worked as department Class Test Incharge for 2 years

Worked as department level Practical/Oral Exam Incharge of Shivaji University, Kolhapur for 2 years

Research/Review Experience

Working as reviewer for International Journal of Hydrogen Energy, Published by Elsevier and available on line on www.sciencedirect.com

Expert Sessions:

Delivered expert session on ‘Hydrogen storage and its use as fuel for IC Engine’ in one week STTP on Recent Trends in Engine Technology, Emission Control Technology and Hybrid Vehicles’ at VIT Pune during 2nd – 6th February, 2015.

Workshops Organized:

Organized three day workshop on “CFD Tools and techniques” during 19-21 August 2014 at RIT Sakharale.

Papers Presented:

a) International Journal

1. **Sharad D Patil** , M. Ram Gopal, Entropy generation and its relation to heating and cooling requirements of a metal hydride hydrogen storage reactor, *International Journal of Hydrogen Energy* 38(2013) 13687-93(*Elsevier*)
2. **Sharad D Patil** , M. Ram Gopal, Analysis of a metal hydride reactor for hydrogen storage, *International Journal of Hydrogen Energy* 38 (2013) 942–51. (*Elsevier*)

b) International Conferences

1. **Sharad D Patil**, M. Ram Gopal. Heat and mass transfer studies on Mg₂Ni–H₂ metal hydride for hydrogen storage, Proceedings of the 22nd National & 11th ISHMT-ASME *Heat and Mass Transfer Conference*, December 28–31, 2013, IIT Kharagpur, India, Paper no. HMTC1300755.
2. **Sharad D Patil**, M. Ram Gopal. Studies on entropy generated in metal hydride reactor for hydrogen storage. The 2nd International Conference on *Engineering and Applied Science*, **Tokyo, Japan**, 15–17 March, 2013. Paper no. 1648
3. **Sharad D Patil**, M. Ram Gopal. Studies on bio-hydrogen storage using metal hydride reactor. International Conference on *Alternative Fuels for I. C. Engines*, MNIT, Jaipur, India, 6–8 February, 2013. Paper no. IC048.
4. **Sharad D Patil**, M. Ram Gopal. Numerical simulation of bio-hydrogen storage using metal hydride. International Symposium on *New Horizons in Bio energy Research*, organized by PK Sinha Center for Bio Energy, IIT Kharagpur, India, 14–16 January, 2013.
5. **Sharad D Patil**, M. Ram Gopal. Studies on metal hydride based system for storage of bio-hydrogen. International conference on *Advances in Biological Hydrogen Production and Applications*, December 14 – 15, 2012 JNTUH, Hyderabad, India.

6. **Sharad D Patil** “The performance testing of Esterified Karanji oil as an Alternative Fuel”, presented at International Conference on Biofuels Vision 2015 at College of Engineering Bikaner, Rajasthan

c) National Conference

1. “The performance and evaluation of oxygenated on diesel exhaust emissions”, presented at National Conference on Emerging Trends in Mechanical Engineering at BMS College of engineering Bangalore.
2. “Effect of oxygenates on diesel exhaust emissions” presented at National Seminar on Recent Advances in Mechanical Engineering at K.K. Wagh College of engineering Nasik
3. “Stability Analysis of single phase flow by numerical methods (CFD) in National conference on CAD/CAM/CAE at RIT Sakharale Dist- Sangli.
4. “An evaluation of oxygenated additives on diesel engine exhaust emissions” presented at National Conference on Advances in Mechanical Engineering at College of engineering, Pandharpur.

Workshops Attended:

1. Participated in One Day workshop on ‘Teaching methodology for TE/BE Mechanical (Heat Power) engineering subjects of Shivaji University Kolhapur’ at PVPIT Budhgaon during 1 August 2015.
2. Participated in Five Day TEQIP II STTP on ‘CFD Theory and Practice’ at SVNIT Surat during 15-19 June 2015
3. National level workshop on “Bio diesel as future fuel for transportation” at V.N.I.T. Nagpur (M S)
4. Workshop on “Jatropha as oil for vehicle” at Miraj Mahavidyalaya, Miraj.
5. TEQIP sponsored two-day workshop on “Engine Emission and Control Technologies”, organized by Department of Automobile Engineering R.I.T. Sakharale.

6. TEQIP sponsored two-day workshop on “Micro and precision engineering”, organized by Department of mechanical Engineering R.I.T. Sakharale.
7. TEQIP sponsored one-day workshop on “Advances in Welding Technology”, organized by Department of mechanical Engineering R.I.T. Sakharale.
8. Workshop on “Curriculum development for B.E. (Mechanical) of revised structure on 2nd Nov 2004 at RIT Sakharale.
9. At Quantum 2005, National level technical symposium worked as member of jury.

Short Term Training Programme attended:

1. One week, short-term course, under Quality Improvement Programme, entitled “Decision Modeling in Facility Planning”, organized by Department of Industrial Engineering and Management, I. I. T. Kharagpur, during July 4-8, 2011
2. One week, short-term course, under Quality Improvement Programme, entitled “State of Art Technologies in I. C. Engines”, organized by Department of Mechanical Engineering, I. I. T. Madras, Chennai, during 29.05.2006 to 02.06.2006
3. One week, short-term course, under Quality Improvement Programme, entitled “Fuels and Combustion”, organized by Department of Energy Engineering, I. I. T. Guwahati, during 02.12.2005 to 06.12.2005.

Extra Curriculum Activities:

Vocational training at Menon Piston Ltd., Kolhapur

In plant training at Ninaidevi S.S. Karkhana Ltd. Kokrud.

Attended seminar on Hydraulic and Pneumatics

Represented school Volleyball team at taluka level.

Patil Sharad Dattatray