

# CURRICULUM VITAE



## DR. CHANNIWALA SALIM ABBASBHAI

Professor, MED, SVNIT, Surat

E-Mail : sac@med.svnit.ac.in  
sac\_svr@hotmail.com

Telephone : (O) 0261 – 2201574  
(R) 0261 – 2490267  
(M) 099241-66200

Fax No. : 0261 – 2227334, 2228394,  
0261 – 2201574

## CONTACT ADDRESSES

**POSTAL ADDRESS** : DR. CHANNIWALA SALIM ABBASBHAI  
PROFESSOR MECHANICAL ENGINEERING  
DEPARTMENT, S. V. NATIONAL INSTITUTE  
OF TECHNOLOGY, ICHCHHANATH,  
SURAT – 395 007.

**RESIDENCE ADDRESS** : 3-1010, INDERPURA, BADRI ROAD,  
OPP. DILKHUSH SODA FACTORY,  
SURAT – 395 003.

## EDUCATIONAL QUALIFICATION

B. E. (Mechanical) SVRCET, South Gujarat University, Surat 1978

M. Tech. (Mechanical) I.I.T, Bombay, 1980

Dissertation: "Hydrogen As An I. C. Engine Fuel".

Ph. D. I.I.T, Bombay 1992

Ph. D. Thesis : "On Biomass Gasification Process and Technology Development – Some Analytical and Experimental Investigations".

## RESEARCH AND TEACHING EXPERIENCE

- Teaching Experience : 32 years at SVNIT Surat
- Research Publications : 193 Nos.

## RESEARCH AREA

- Turbomachines
- Hydrogen Fuelled Engine
- Dedicated CNG Engine Technology
- Hybrid Electric Vehicle
- Gas Turbine Combustion Chamber
- Plasma Gasification and Pyrolysis of MSW

## NO OF STUDENT GUIDED

- M. Tech Completed : 94 Nos.
- Ph.D Completed : 11 Nos. In-progress : 10 Nos.

## CONSULTANCY AND TESTING ASSIGNMENTS

- CONSULTANCY ASSIGNMENT : 97 Nos.
- TESTING ASSIGNMENT : 103 Nos.

## DETAILS OF PATENTS

➤ PATENT OBTAINED	: 03 Nos.
➤ PATENT IN PROGRESS	: 05 Nos.
➤ TOTAL	: 08 Nos.

## TECHNOLOGY TRANSFER AGREEMENT/MOU

➤ TECHNOLOGY TRANSFER AGREEMENT	: 01 Nos.
➤ MOU SIGNED WITH INDUSTRY	: 08 Nos.

## DEVELOPMENT OF LABORATORIES

➤ SET-UP	: 23 Nos.
➤ EQUIPMENTS	: 06 Nos.

## SPONSORED RESEARCH ACTIVATES

➤ COMPLETED	: 11 Nos.
➤ ONGOING	: 01 No.

## CONFERENCES/SEMINARS/SCHOOL ORGANIZED/ ATTENDED

➤ SEMINAR / CONFERENCE / SCHOOLS ORGANISED	: 22 Nos.
➤ CONFERENCES / SEMINAR ATTENDED	: 13 Nos. [International] : 28 Nos. [National]

## INVITED LECTURES/TALK DELIVERED

➤ INVITED LECTURES / TALK DELIVERED	: 89 Nos.
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## AFFILIATION

- I.E : Fellow – F/110479/5, 076/MC
- Life Member – ISTE
- Life Member, Combustion Institute: LMC-1094
- Member, SAE - No. 7010051002
- Member – STAI
- Member- ASME : 9196916
- Member – Editorial Board of Int. J. of Sugar Tech.
- Member – Board of Studies, SGU, Surat
- Member – Advisory Board, Surat Chamber of Commerce
- Member – Project Implementation Committee, SMC, Surat
- Member, Board of Studies, M.S. University, Vadodara.

## HONORS, AWARDS AND SPECIAL RECOGNITION

1. Young scientist award & silver medal (2<sup>nd</sup> Prize) for the Second Best Paper entitled, "Development of a 15 kW (Shaft Power) Down Draft Experimental Research Gasifier", at 1<sup>st</sup> National Technical Meet on Recent Advances in Biomass Gasification Process & Technology, held at I.I.T., Bombay, Sept'89.
2. Young Scientist Award & Gold Medal (1<sup>st</sup> Prize) for the best paper entitled "On Performance of Downdraft Gasifier as Influenced by Water Seal", at 2<sup>nd</sup> National Technical Meet on Recent Advances in Biomass Gasification Process & Technology, held at Udaipur, Dec'90.
3. Ujas Award.
4. Rotary Award.
5. Bhaikaka award for best paper entitled "Experimental Investigations on Radial Tipped Centrifugal Blower".
6. N. K. Iyenger Memorial Prize for Best research paper entitled "Design Methodology of Pressure Swirl Atomiser, Spray Characterization and Drop Diameter Evaluation using Scanning Electron Microscope for Micro Gas Turbine Engine" by IEI, 2011.

## ADMINISTRATIVE EXPERIENCE

- \* **Incharge Director:** October – 2010 to November - 2011
- \* **Incharge Director:** June – 2005 to October – 2005
  - Introduced CGPA System
  - Resolved long pending problem of CAS
  - Signed MOU with L&T, Hazira to start full time collaborative M.Tech programme entitled Industrial Process Equipment Design.
- ➔ Signed first technology transfer agreement for Combustion monitoring chemical with M/s Altret Chemicals Pvt. Ltd., Surat.
- \* **Head of Mech. Engg. Deptt., [2004 – 07]**
  - Increased industrial interactions including their participation in curriculum development
  - Introduced CGPA system in curriculum
  - Improved work culture by keeping department open during evening hours.
- \* **Dean Post Graduate Studies & Research [2003 to 2005]**
  - Streamlined and proposed few new PG programmes at Institute level.
  - Introduced CGPA system in PG.
  - Initiated Doctoral Programmes [at the institute level]
- \* **Coordinator, Co-coordinator & Nodal Officer World Bank Project [ TEQIP ] [ 2004-2009]**
  - Involved from preparation of project proposal.
  - Responsible for complete detailing of the project, presentation at various levels and execution of the project.
- \* **P. G. Incharge [1995-2009]**

Involved in starting from PG admissions, Allotment of PG teaching load, PG Examination, PG Dissertations, Curriculum Development and even PDDC admissions.
- \* **Introduced M.Tech. (IPED) in Collaboration with L&T, Hazira.**
- \* **Coordination with Surat Municipal Corporation**

Tender scrutiny, feasibility studies, the overall development of the city, etc.
- \* **Co-ordinator for Continuing Education Programme.**
- \* **Co-ordinator for Center of Excellence Activity.**
- \* **Coordinator Research Project / Consultancy / Testing Work**
- \* **Chairman, Sophisticated Instrumentation Centre**
- \* **In charge Central Computer Center, Library and International Affairs**
- \* **Laboratory In-charge [1981-2010]**

Handled Various Laboratories including I.C.Engine Lab., Mechanical Measurement Lab., Basic Mechanical System Lab., ASE Lab., Heat & Mass transfer Lab., Fluid Mechanics Lab., S.I.C. Lab etc.

## BREAKTHROUGH/INNOVATIONS/ACHIEVEMENT

- ➔ Developed Zero Discharge Gasification System first of its kind across the globe.
- ➔ Developed Plasma Gasification System first of its kind in India.
- ➔ Involved in development of dedicated gas engine technology which offers much better performance than any conventional fuelled engines.
- ➔ Involved from concept to commissioning of 0.5 MW sewage gas based power plant for Surat Municipal Corporation during 1998-2004, which is first of its kind in India.
- ➔ Developed India's first solar assisted electrical vehicle during 1995-97.
- ➔ Developed Delayed Entry technique for backfire free operation of single cylinder & multi-cylinder Hydrogen fuelled engines in 1978-80 at IIT-Bombay.