

Profile of Dr.A.D.Srinivasan

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Educational Record:

Degree	University	Subject/Field	Period	Class/Remarks
PhD	IISc Bangalore	Electrical discharge based air pollution treatment (High Voltage Application)	2002-2005	<i>Recipient of best thesis award and Badkas Gold Medal</i>
M.E.	IISc Bangalore	High Voltage Engineering	1994-1996	<i>Recipient of out standing grade in the project work</i>
Post Graduate Diploma in system analyst (PGDSA)	SJCE, University of Mysuru	Applications of computer	1989-1990	First class
B.E.	NIE, University of Mysuru	Electrical power	1980-1984	First class with distinction

Employment Record:

Organisation	Designation	Period
S.J.C.E, Mysuru Dept. of E&EE Engg.	Professor	24-11-2005 to till date
S.J.C.E, Mysuru Dept. of E&EE Engg.	Assistant Professor (Selection Grade)	6-11-1997 to 23-11-2005
S.J.C.E, Mysuru Dept. of E&EE Engg.	Senior Lecturer	6-11-1992 to 5-11-1997
S.J.C.E, Mysuru Dept. of E&EE Engg.	Lecturer	6-11-1987 to 5-11-1992
Kirloskar Electric Company, Mysore	Power electronic engineer	10-10-1985 to 22-10-1987
NIE, Mysuru Dept. of E&EE Engg.	Lecturer	19-2-1985 to 9-10-1985

Membership of Scientific & Professional Societies

- Life member of Indian Society for Technical Education (MISTE)
- Was a member of IEEE

Membership of University / Institution Authorities

- Member, Board of Examinations, SJCE and JSSS&T, Mysuru.
- Member, Board of Studies, SJCE and JSSS&T, Mysuru.

Involvement in Institute activities:

- ✓ Involved during visit of local inspection committee.
- ✓ Involved in conduction of student council election and Jayciana
- ✓ Involved in Exam conduction and evaluation
- ✓ Involved in NBA preparation activity. Worked as NBA coordinator for Ist year common subject – Basic Electrical Engineering
- ✓ Vice president of Teachers Association of our college
- ✓ Member of anti ragging squad
- ✓ Involved in the stock verification process

Interaction with outside world

- Had fruitful research discussion with **Prof. Akira Mizuno**, a senior researcher Toyohashi University of Technology, Japan, in the field of applied electrostatics and Non thermal plasma during his stay in our college in connection with **GIAN** program organised by me from 21st to 27th Dec 2017
- Was able to initiate an important event - **Letter of Mutual Consent** between BMS College of Engineering and Our College in the field of Electrical Discharge Based pollution control which was signed on 20th December 2017.
- Delivered a technical talk on “**Recent trends in High Voltage Engineering**” at ATME College of Engineering, Mysuru, on 17th November 2017.
- Had discussion with Dr. Vasudev Additional Director **CPRI, Bengaluru** on the research problems in the area of Applications of High Voltage Engineering on 16.10.2017
- Had discussion with Dr. Rajanikanth B.S. professor, and Dr. Subbareddy Associate Professor Department of Electrical Engineering **IISc Bengaluru** on the newer applications of Non thermal plasma and establishment of outdoor insulator testing laboratory on 16.10.2017
- Interacted with local electronic industry “**Vinyas innovative Technologies**” PVT Ltd, Mysore regarding student internship and project work.
- Have been setting question papers for B.E. examinations of other Institutes like NIE, Mysuru, PESCE, Mandya
- Have been reviewing IEEE research papers related to electric discharge non thermal plasma applications
- Have been constantly interacting with Prof. B.S. Rajanikanth of IISc with regard to research activities in the field of electrical discharge applications to environmental protection
- Presented research paper in the International Conference on Electro Static Precipitator held at Bangalore in 2013.
- Delivered a technical talk on “**High Voltage Engineering**” at Vidyaverdaka College of Engineering Mysore, on 04th September 2012.
- Presented research paper in the International Symposium on Plasmas for Catalysis held at Tianjian China in 2012.

- Presented research paper in the IEEE International Conference at Haouston Texaus USA in 2010.
- Nominated as member of electrostatic process committee IAS IEEE in 2008
- Invited to prepare questions for the question bank for conduct of 1st semester B.E examination in Basic Electrical Engineering by VTU Belagavi during January 2007.
- Presented research paper in the IEE-IAS Anual meeting held at New Orleans Louisiana USA in 2007.
- Have received travel grants from AICTE, UGC, DST and TEQIP to present papers in International conferences held in USA during 2006, 2007 and 2010
- Delivered a technical talk on “**Automotive Emission Causes-Effects & Control**” at Malnad College of Engineering, Hassan, on 28th October 2006.
- Delivered a technical talk on “**Development in the automobile sector & its detrimental effects**” at Institution of Engineers Mysuru, on 18th April 2006.
- Was one of judges for Electrical and Electronics stream for project evaluation of Do it yourself state level exhibition organized by JSS polytechnic in 2006.
- Was a Comittee member constituted by AICTE New Delhi for Program evaluation committee for the project evaluation of mechtronics lab under modrob in 2006.
- Was one of member in VTU revision of syllabus for BE Course in Electrical and Electronics 2006.
- Presented research paper in the ESA/IEEE joint International Conference on Electro Statics at University of California Berkeley USA in 2006.
- Worked as presiding officer in the lokasabha elections

Establishment of R and D Lab

I am the principal coordinator of the “**Electrical discharge based air/water pollution control**” full pledged R and D lab which was set up in our department in the year 2010-11. A total amount of Rs **21,15,000/** was funded by AICTE,VTU and DST for the esablishment of the lab. The research lab has facilities to generate and apply High Voltage Nano pulses which are used in the exhaust cleaning and water treatment.The lab is being constantly used by students (PhD, M.Tech and BE). Many useful and interesting results have been obtained and many research papers in reputed International Journals and conferences have been published. **Five research**

scholars are pursuing their research work for PhD degree using the research lab facility under my guidance. Two students have completed their comprehensive viva, and the rest have completed their course work. **One student has been awarded the doctoral degree from VTU under my guidance.** The details of the research projects executed are given below:

Research Projects Executed:

- “Electrical Discharge Based Hybrid Technique for Vehicular Emission Control- A Non Conventional Approach for Environmental Protection”. A Research Project Scheme funded by VTU.

Grant received from VTU = Rs 8,50,000/

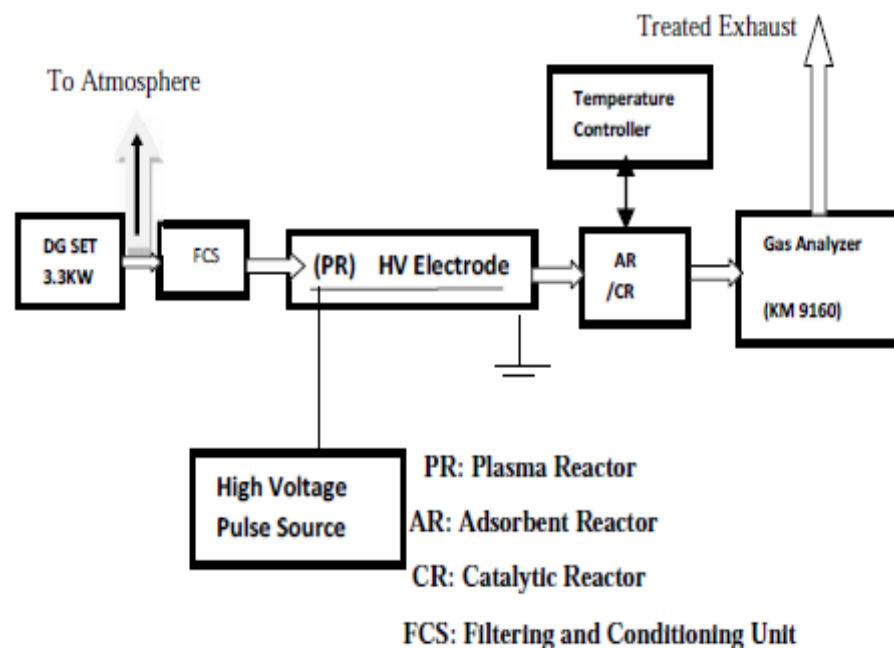
- “Electrical Discharge Based Hybrid Technique for Diesel Emission Control-A Non Conventional Approach to Environmental Protection” A Research Project Scheme funded by AICTE

Grant received from AICTE = Rs 8,90,000/

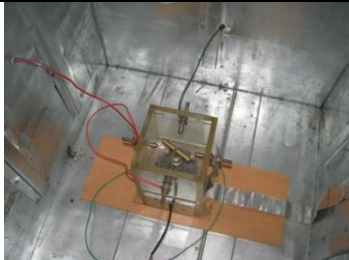
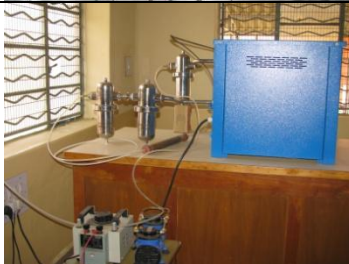
- “Electrical Discharge Based Hybrid Technique for Vehicular Emission Control- A Non Conventional Approach for Environmental Protection”. A Woman Scientist Project scheme Funded by DST

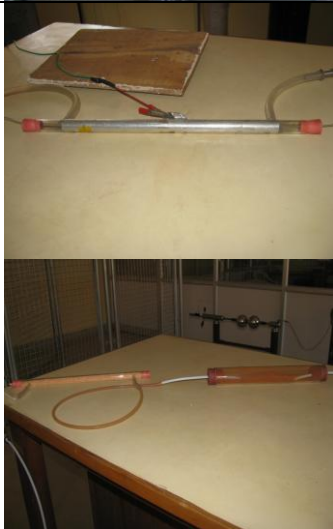
Partial Grant received from DST = Rs 3,75,000/

Facilities available in the R and D lab:



Schematic Diagram of Diesel Engine Exhaust Treatment using electrical discharge based non thermal plasma technique

S.I No	Equipment	Details	Photo	Remarks
1	High Voltage Equipments	- High Voltage testing transformer-230/100kV, 20mA - Rectifier Unit- 140kV,20mA - Current limiting resistors- 140kV,20mA - Capacitor circuit-140kV, 25000pf - Marx Generator - Wave shaping circuit	 	This is used to generate High Voltage AC 100 kV, DC 140kV and Impulse Voltage 140kV
2	Rotating Spark Gap	Electrode assembly Motor Single phase Variac		This is used to generate High Voltage nano pulses up to 30kV
3	Filtering & Conditioning unit with filtering circuit along with vacuum pump	Oil filters Dryer Filter for particulate matter		This is used to condition the exhaust
4	Portable Gas Analyzer	Make: Quintox Model: KM 9106		This is used to monitor various gases (NOX, CO, CO2, HC, O2) in the exhaust
5	Digital Storage Oscilloscope	Make: Tecktronics Sampling rate:200MHz		This is used to store the voltage wave forms for analysis

6	Furnace Type Heater	Make: Max Heater Max Temperature:800°C		This is used to heat catalysts
7	Plasma/ Catalytic reactors	Quartz reactors of different dimensions		Various types of catalysts are filled in these reactors
8	Gas Cylinders with steel piping arrangement	Different types of gas cylinders		This is used for simulation experiments
9	Diesel Engine Exhaust	3.3KW diesel engine with Electrical loading facility		This is the source of exhaust
10	Safety Mesh			

11	Control Desk	Contactors Push buttons Meters Motorised controller Protective devices		This is used to vary voltage from 0 to 100kV AC
12	Tigatron Gap assembly	Pulse generator Receiver		This is used to trigger the spark gap

Honors and Awards

- Recipient of **Dr. S. Radhakrishna award** and **Gold medal** for achievement in research and education given by GEPR Chennai in 2013
- Recipient of **Best Thesis award** and **Gold medal** for PhD thesis at The Indian Institute of Science, Bangalore in 2005
- Recipient of **outstanding grade** in M.E. project at The Indian Institute of Science, Bangalore in 1996
- Nominated as **member of electrostatic process committee**, IAS IEEE
- Elected vice president of the SJCE teachers association
- **B high grade** light music vocal artist in All India Radio and DOORDARSHAN
- Recipient of titles **Bhavuka gayaka** and **Kanchina kanta**