

Dr. A. Ramalinga Chandra Sekar

Program Officer, ENVIS - Plastic Waste Management

Thiagarajar College of Engineering

Madurai-15

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Educational Qualifications:

S. No	Course	Branch	College/School	University	Month & Year of Passing	% of Marks	Class / Division
1	PhD	Science and Humanities	Thiagarajar College of Engineering	Anna University Chennai	July 2016	NA	NA
2.	M. Phil	Chemistry	Madurai Kamaraj University	Madurai Kamaraj University	July 2014	63.20	First
3.	M. Sc	Applied Chemistry	Thiagarajar College of Engineering	Anna University, Chennai	April 2004	7.70	First
4.	B. Sc	Applied Sciences	Thiagarajar College of Engineering	Madurai Kamaraj University	April 2002	68.87	First
5.	HSC	Physics+ Chemistry+ Maths	Oxford Matriculation School, Sivagangai	-----	April 1999	88.25	First

Area of Specialization:

- Bitumen Chemistry
- Polymer Chemistry
- Industrial Chemistry
- Analytical Instruments
- Engineering Chemistry
- Road Technology

Details of Employment (Work Experience)

Name of the Office/Instt./Orgn.	Post held	From	To	Nature of duties/ Exp.
Thiagarajar College of Engineering, Madurai	Research Associate	04-11-2004	08-08-2005	Research work on waste polymer utilization

Thiagarajar College of Engineering, Madurai	Part time Lecturer	08-08-2005	03-08-2006	Handled Engineering Chemistry and Environmental Sciences Papers for BE students
Thiagarajar College of Engineering, Madurai	Senior Research Fellow	03-08-06	31-07-2012	Research work on Polymer science and Environmental Sciences
Thiagarajar College of Engineering, Madurai	Teaching Assistant	01-08-2012	31-12-2012	Handled class for Ist Year BE (Engineering Chemistry)
Thiagarajar College of Engineering, Madurai	Research Associate	27-06-2013	30-06-2016	DST Project
Thiagarajar College of Engineering, Madurai	Assistant Professor	19-07-2016	28-02-2018	Handled Engineering Chemistry and Environmental Sciences Papers for BE students and Foundation Elective Papers
ENVIS - Plastic Waste Management, Thiagarajar College of Engineering, Madurai	Program Officer	01-03-2018	Till Date	ENVIS Scheme

Papers Published:

S. No	Title	Name of the Journal	Year and Month of Publication
1.	Utilization of waste plastics for flexible pavement	Civil Engineering and Construction Research	March 2009
2.	Utilization of waste plastics for the construction of flexible pavement – a Green Technology	International Journal of Pavement Research and Technology	January 2010, Volume - 3/No.1
3.	A technique to dispose waste plastics in an eco friendly way – Application in construction of flexible pavements	Construction and Building Materials; Elsevier	Vol. 28; 2012 ; 311-320
4.	Polymer modified bitumen prepared using abs polymer- characterization and application in flexible pavement	ARPN Journal of Engineering and Applied Sciences	Vol. 10, no.8, pp. 3786-3792

Conference/Workshops Presented/ Published

S. N O	Title	Organized By	Name of the Conference	National/ International	Year
1.	“ Utilization of waste plastics in flexible pavement”	Anna University, Chennai	8 th Asian Academic Network for environmental Safety and Waste Management,	International	Dec 2006
2.	“Recycling of plastics”	Indian Plastic Institute, Mumbai	“Recycling of plastics”	International	Sep 2007
3.	“Utilization of waste plastics coated aggregate for flexible pavement and easy disposal of waste plastics”	Anna University, Chennai	“ Sustainable Solid Waste Management” Conducted by Centre for Environmental Studies, Anna University,	International	Sep 2007
4.	Easy disposal of waste polymers	Widener University, Philadelphia	Solid Waste Management	International	Mar 2008
5.	One week workshop on bituminous materials and its chemical characterization	IITM, Chennai	One week workshop on bituminous materials and its chemical characterization	National	Dec 2009
6.	Waste Plastics management – a green technology	SRM University	National level seminar on Green Chemistry	National	Sep 2010
7.	Plastics waste - a source of wealth	Kerala Agricultural University	National level symposium on waste management	National	Jan 2011
8.	One week workshop on “Recent Advances in Polymer Sciences”	National Institute of Technology, Surathkal	One week workshop on “Recent Advances in Polymer Sciences”	National	Aug 2011
9.	Polymer Modified Bitumen using ABS Polymer recovered from E- waste	Centre for Nano science and Technology, Mahatma Gandhi University, Kottayam	International Conference on Advanced Polymeric Materials	International	Oct 2013
10	Characterization of Polymer Modified Bitumen	Dept. of Chemistry, National Institute Technology- Trichy	Intl. conference on Green technology for environmental pollution	International	Sep 2014
11	Waste plastics utilization in road laying	Ministry of Drinking water and	Indian Sanitation Conference,	National	Sep 2016

		Sanitation, GOI, New Delhi	INDOSAN 2016		
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Seminars /Schools/Conferences/Workshops Organized:

S. No	Title	Period	Place	Remarks
1.	One Day seminar on Recent Trends in Green Chemistry	February 20 th and 21 st 2009	Thiagarajar College of Engineering, Madurai-15	Co Coordinator

Projects Done

Title of the PhD. Thesis	Design and Development of Polymer Modified Bitumen Smart Composites
Title of the M. Phil Thesis	Thermal Analysis of waste polymers and its Utilization
Central Pollution Control Board Project	Performance studies on built plastic tar roads.
Department of Science and Technology	<ol style="list-style-type: none"> 1. A study on the characterization and utilization of waste plastics- Green Technology 2. Flexible waste plastics in road laying 3. E – Waste Management

Additional Qualification:

- Trained to handle
 1. Thermo gravimetric Analyzer
 2. Differential Scanning Calorimeter
 3. UV- Spectro Photometer
 4. FTIR Spectroscopy
 5. All Bitumen Testing Equipments
 6. All Road Performance measurement equipments.
 7. Brook Field Viscometer
 8. Optical Fluorescent Microscope