

Report On
SCOPE INDEXED NATIONAL
CONFERENCE ON EVOLUTION ON
GREEN AND MATERIAL
PROCESSING TECHNOLOGY
(NCEGMPT 2K17)

held on 02.03.2017 – 03.03.2017

Organized by

DEPARTMENT OF MECHANICAL ENGINEERING



Dr.S.SARAVANAN

Coordinator



Dr. S. RAMESH BABU, M.E., Ph.D
Professor & Head
Department of Mechanical Engineering
Sri Venkateswara College of Engineering
Pennalur, Sriperumbudur (TK) - 602117.
Tamilnadu, INDIA.

Dr.S.Ramesh Babu
Convenor

SCOPUS Indexed
National Conference on
Evolution of Green and Materials Processing Technology
(NCEGMPT2K17)

02-03 March 2017



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Organized by

DEPARTMENT OF MECHANICAL ENGINEERING
SRI VENKATESWARA COLLEGE OF ENGINEERING
(An Autonomous Institution affiliated to Anna University, Chennai)

PROCEEDINGS OF THE
NATIONAL CONFERENCE
ON
EVOLUTION OF GREEN AND MATERIALS
PROCESSING TECHNOLOGY
NCEGMPT2K17

(Sponsored by Council of Scientific and Industrial Research-New Delhi)

MARCH 02 & 03, 2017

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Fax : 91-44-2447 0690

Email:acm@svce.ac.in URL : <http://www.svce.ac.in>

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Prof. Dr. M. Sivanandham
Secretary

MESSAGE

I am happy to note that department of Mechanical Engineering of Sri Venkateswara college of Engineering is organizing CSIR sponsored National Conference on **Evolution of Green and Materials processing Technology-2k17** on 2nd and 3rd March 2017

For the past 33 years SVCE had been rendering Quality service in the field of Engineering Education by providing excellent Infrastructure and the right team of qualified staff. This makes SVCE to march towards inventions & innovations in this competitive era confidently. SVCE is playing its role in training the "YOUTH" who are National Assets and Future of India. In the coming years, SVCE will definitely craft thousands of successful Engineers and Entrepreneurs to serve the Nation and Society.

I hope this conference is going to be a platform for fruitful interaction among the researchers. As the proceedings of the conference are to be published in an International Journal, this conference signifies the quality of topics covered in this engineering and technology sector.

On behalf of the management, I thank Council of Scientific and Industrial Research (CSIR), New Delhi for their financial support to this conference.

I congratulate the Head of Mechanical Engineering Department, Convenor, Organising Secretary, Coordinators and Organizing committee for conducting this conference and I wish them all success.

M. SIVANANDHAM

Sri Venkateswara College of Engineering

(An Autonomous Institution affiliated to Anna University)

Post Bag No-1, Pennalur 602 117, Sriperumbudur (TK), Tamil Nadu, India

Phone: 91-44-2715 2000

Fax : 91-44-2716 2462 / 2716 2956

Email: acm@svce.ac.in URL: <http://www.svce.ac.in>

Grams: SVEC, Sriperumbudur



Dr.S.Ganesh Vaidyanathan
Principal

MESSAGE

Warm greetings to all. I am immensely happy that Department of Mechanical Engineering our college is organizing a CSIR sponsored National Conference on Evolution of Green and Materials Processing Technology 2k17 on 02nd and 03rd March 2017

Our environment is dramatically altered by Global climate change. In addition to that there exists a demand of green technologies to meet the worldwide urbanization, manufacturing and population growth. Green Technologies have brought Technological changes all over the world. Even though the Green Technologies are technically matured they have comparatively low market shares around the world.

Conducting this conference would be most appropriate for the entire world as all the countries are striving hard to implement green technologies in all the sectors

On behalf of the Management, I thank Council of Scientific and Industrial Research (CSIR), New Delhi for their financial support.

I appreciate the Head of Mechanical Engineering Department, Convenor, Organising Secretary, Coordinators and Organizing committee for their cooperation and hard work in making this conference possible. I wish the conference a huge success.

S.GANESH VAIDYANATHAN

Sri Venkateswara College of Engineering

(An Autonomous Institution affiliated to Anna University)

Post Bag No-1, Pennalur 602 117, Sriperumbudur (TK), Tamil Nadu, India

Phone: 91-44-2715 2000

Fax : 91-44-2716 2462 / 2716 2956

Email: acm@svce.ac.in URL: <http://www.svce.ac.in>

Grams: SVEC, Sriperumbudur



Dr.S.RAMESH BABU Ph.D

Professor and Head of Mechanical Engineering

Conference Chair NCEGMPT 2K17

February 28, 2017

MESSAGE

I extend my warm welcome to all the participants of **National Conference on Evolution of Green and Materials Processing Technology** being organized by the Department of Mechanical Engineering. At this moment, I wish to express my sincere gratitude to our chairman of Governing council Dr. A.C. Muthiah, SVEHT Secretary Dr. M. Sivanandham and our Principal Dr. S. Ganesh Vaidyanathan for their valuable suggestions and contributions to the success of this two day conference.

The Department of Mechanical Engineering of SVCE is well known in the field of technical education by inculcating moral values and learning methodologies for the students through current research and development. In this perspective, this conference will create a platform for the academicians, researchers and Industry representatives to discuss the recent trends and practices in green energy and manufacturing process. This initiative will enhance the ideas on new innovative trends and will further motivate the participants and students to take up the research initiatives.

My heartiest congratulations to the coordinators and all the members of the Mechanical Engineering department who has taken the initiative to organize this conference and make the event a great success.

Dear participants, have a great conference and pleasant stay in SVCE


Dr. S. RAMESH BABU, M.E., Ph.D
Professor & Head
Department of Mechanical Engineering
Sri Venkateswara College of Engineering
Pennalur, Sriperumbudur (TK) - 602117.
Tamilnadu, INDIA.

S.RAMESH BABU

Sri Venkateswara College of Engineering

(An Autonomous Institution affiliated to Anna University)

Post Bag No-1, Pennalur 602 117, Sriperumbudur (TK), Tamil Nadu, India

Phone: 91-44-2715 2000

Fax : 91-44-2716 2462 / 2716 2956

Email: acm@svce.ac.in URL: <http://www.svce.ac.in>

Grams: SVEC, Sriperumbudu



Professor of Mechanical Engineering

Convenor- NCEGMPT 2K17

Dear Enthusiastic research scholars, faculties and students

The very fact that you are here showcases your enthusiasm and passion for the research. It is good to have you here. We understand that you are yearning to sustain your research Practice with experiential work, best practices and the next practices too. You are looking for a Growth in your field of research work and your service realms as well. Growth is good.

SVCE (Sri Venkateswara College of Engineering) Sriperumbudur, department of Mechanical engineering had hosted the first ever National Conference in our institution in 2014. Three years hence, SVCE is enthralled to host the National Conference again. To fulfill your passionate desire to accomplish Sustainable Growth in the Green evolution and Material processing practice. Extended version of the selected papers will be published in journal after peer review process.

SVCE is committed to providing better knowledge sharing and practice enhancing opportunities to all research enthusiasts. This conference is another endeavor to provide great Networking, Knowledge Sharing & Skill Enhancing opportunities to the conference Volunteers, Delegates, Speakers, Technical Paper presenters and our Sponsor representatives too. The conference is for 2 days from March 2nd 3rd, 2017.

On behalf of the management, I thank the sponsors, Council of Scientific and Industrial Research (CSIR), Chairman and treasurer, ISTE Student chapter, SVCE, for their sponsorship We eagerly look forward to your support & contribution to the Conference and your presence at the conference too.

N. Muthukrishnan

Sri Venkateswara College of Engineering

(An Autonomous Institution affiliated to Anna University)

Post Bag No-1, Pennalur 602 117, Sriperumbudur (TK), Tamil Nadu, India

Phone: 91-44-2715 2000

Fax : 91-44-2716 2462 / 2716 2956

Email: acm@svce.ac.in URL: <http://www.svce.ac.in>

Grams: SVEC, Sriperumbudur



Dr.S.SARAVANAN Ph.D

Professor of Mechanical Engineering

Organizing Secretary NCEGMPT 2K17

February 28, 2017

MESSAGE

Technology is the prime mover for economic growth in any country and is vital for the sustenance of modern economy. Future economic growth crucially depends on the long-term availability of energy from sources that are affordable and accessible. With awareness on the impact of air pollution and global warming, it has also become necessary that the technology should be environmentally friendly. Creating a sustainable energy and environment path is a vision shared by many all over the world. Green Technologies is one of the most important requirements for the overall sustainable development.

This **National Conference on Evolution of Green and Material Processing Technology (NCEGMPT2K17)** is focused to explore the recent developments of green technologies in transport, industry and power sectors and also to create a platform for initiating further developments in the field of green technology. This conference is also devoted to bring the experts from renowned institutions and manufacturing industries, scientists and researchers in the field of green technology to discuss the regional, national and international issues and develop a feasible practical plan for effective speedy growth in achieving sustainable energy and environment for the future

It is really overwhelming to note that around 30 research articles are to be presented in this grand meet and the researchers are seriously awaiting to participate and interact with the experts in various fields to know the evolutions in the field of green technology.

The bubbling enthusiasm of the participants and the efforts of the organizing committee shall make this conference a great success



Dr. S. SARAVANAN

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**NATIONAL CONFERENCE ON EVOLUTION OF GREEN AND
MATERIALS PROCESSING TECHNOLOGY
(NCEGMPT2K17)**

Programme Schedule

Day 1: 02-03-2017

Session I: Energy and Environment (10.30 AM-12.30PM)

Chair : Dr. G.Nagarajan

Professor of Mechanical Engineering
College of Engineering,
Engineering Division
Anna University, Chennai

Co-Chair : Dr.S.V.Srinivasan

Senior Scientist
Environmental science and
CSIR- -20 CLRI, Chennai

S. No	Manuscript ID	Manuscript Title
1	GET002	Experimental Investigation and Optimization of Diesel premixing in a Waste Cooking Oil fueled HCCI-DI engine with FeCl ₃ / Al ₂ O ₃ additives G.M. Lionus Leo, S.Sekar, S.Arivazhagan
2	GET003	Extraction of Bio Ethanol from rice straw S.P.Prasanna , K.Varatharajan , D.Prem Kumar
3	GET004	Experimental Investigations on Four Stroke Diesel Engine with Linseed methyl Esters (LME) / Diesel Blends at Various Injection Pressures Dr.Venkata Ramesh Mamilla, Dr.G.Lakshmi Narayanan Rao, P.Leela Mani Prakesh
4	GET010	A review on third generation biofuel - Microalgae and its characteristics on compression ignition engines v. Venkatesan, D. Karthick N. Nallusamy
5	GET014	Review of effect of nano additives in bio diesel emission. R.RAGUL, R.RAHUL, D .PREM KUMAR, DR.SEKAR

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Dr. S. SARAVANAN

Ramesh

Dr. S. RAMESH BABU, M.E., Ph.D
Professor & Head
Department of Mechanical Engineering
Sri Venkateswara College of Engineering
Pennalur, Sriperumbudur (TK) - 602117.
Tamilnadu, INDIA.

Day 1: 02-03-2017

Session II : Green Energy(1.15 PM- 3.45 PM)

Chair : Dr.K.Pitchandi

Professor,
Department of Mechanical Engineering
Sri Venkateswara College of Engineering

Co-Chair : Dr.Anand Gurupatham

Senior Manager
M/s Renault Nissan Ltd

S. No	Manuscript ID	Manuscript Title
1	GET001	Mitigation of pollution by exhaust gas through study of emission from two wheelers V.Ramakrishnan, K.Purushothamam
2	GET006	Performance and Emission Characteristics on CI Engine Fuelled with Palm Styrene Methyl Ester, Sun Flower Methyl Ester and Rice Bran Methyl Ester Blends as an Alternative Fuel Blended with Diesel Dr.Venkata Ramesh Mamilla, Dr.G.Lakshmi Narayanan Rao, Pothuri.Venkata Gowtham, Sivateja
3	GET012	Performance and emission characteristics of CI engine fuelled with cerium oxide nanoparticle blended biodiesel Pragatheeswaran.V, Gajendiran.M
4	GET013	Performance and Emission Characteristics of a Compression Ignition Engine using Methyl ester derived from Distillates of Sunflower oil as a fuel P.K.Devan, S.Gopinath, S.Senthil Kumar
5	GET018	Experimental analysis on linear fresnel reflector solar concentrating hot water (LFRSCHW) system with horizontal absorber varying width reflectors M.Babu
6	GET020	Investigation Of Performance And Emission Characters Of Compression Ignition Engine Fuelled With Diesel Blends Of Linseed And Cottonseed Oil C Ramesh Kumar, P Gopal, Saravanan S



Dr. S. SARAVANAN



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Professor & Head
Department of Mechanical Engineering
Sri Venkateswara College of Engineering
Pennalur, Sriperumbudur (TK) - 602117.
Tamilnadu, INDIA.

Day 2: 03-03-2017

Session III: Advanced Technology for sustainable Environment (9.00-10.30 AM)

Chair : Dr.S.Ramesh Babu

Professor and Head
Dept. of Mechanical Engineering
Sri Venkateswara College of Engineering

Co-Chair: Dr.K.Bhaskar

Professor and Head
Dept. of Automobile Engineering,
Rajalakshmi Engineering College

S. No	Manuscript ID	Manuscript Title
1	GET011	Dimensionless analysis of spray characteristics of chicha oil methyl ester and diesel fuel in spray chamber Ganesh Kumar.S. Raghu.P, Pitchandi.K, Nallusamy.S
2	GET016	Spray analysis in high pressure chamber with diesel and biodiesel P.Karthik Selvan, S.Arumugam, K.Pitchandi
3	GET019	Comparison of factors influencing smoke density of a stationary diesel engine fuelled with diesel and biodiesel blend <i>V.S.Vijey, N.Arun Sankar, S.Saravanan</i>
4	GMPT001	Suitability of twisted natural fiber calotropis gigantea in commercial vehicle window trim Renugadevi.K, P.K.Devan
5	GMPT002	Empirical study of environmental risk management in small and medium enterprises <i>Vikram.H</i>
6	GMPT003	Role of HVAC systems for sustainable green buildings S P Arunram, M Kabilan, M Ananth Kumar, R Hariharan
7	GET021	Modeling And Analysis Of Heat Exchanger To Eradicate Icing In Inlet Manifold Of Ethanol Driven Carburized CI Engine Vishnu V
8	GMPT004	Modeling and Analysis of Energy Conservation in Turning of Lead Free-Micro Alloyed Steel using D-Optimal Design S.Muniraj, Dr. N. Muthukrishnan

S Saravanan

Dr. S. SARAVANAN

Ramesh Babu

Dr. S. RAMESH BABU, M.E., Ph.D
Professor & Head
Department of Mechanical Engineering
Sri Venkateswara College of Engineering
Pennalur, Sriperumbudur (TK) - 602117.
Tamilnadu, INDIA.

Day 2: 03-03-2017

Session IV: Combustion (10.45 AM- 12.30 PM)

Chair : G.Senthil kumar

Divisional Manager – Engine Development,
CVRDE

Ashok Leyland - Technical Centre

Co-Chair : N.S Prasad

Scientist,

S. No	Manuscript ID	Manuscript Title
1	GET007	Effects of multilayer coated piston on low temperature combustion engine fuelled with butanol, algae oil and diesel blends S.Natarajan, S.Raja, K.Pitchandi
2	GET008	Waste Heat Recovery from IC Engine exhaust using a Beta-type Stirling Engine N.S.Siddharth, S.Vishakaraj, V.Vishal, A.Amartya Karthic, N. Nallusamy
3	GET009	Experimental Investigations on Multilayer coated PCCI engine fuelled with Jatropha and diesel blend S.Natarajan, S.Raja, Kalyana Chakravarthy Reddy Seepareddy Lakshmikar Reddy.B , K.Pitchandi
4	GET015	Optimization of performance and emission characteristics of PP CI engine with ethanol and diesel blends using Grey Relational Analysis S.Natarajan, K.Pitchandi
5	GET017	Experimental investigation of flickering conical flames Aswathi Krishna, Dr. Prathap. C.

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Dr. S. SARAVANAN

Ramesh

Dr. S. RAMESH BABU, M.E., Ph.D
Professor & Head
Department of Mechanical Engineering
Sri Venkateswara College of Engineering
Pennalur, Sriperumbudur (TK) - 602117.
Tamilnadu, INDIA.

SRI VENKATESWARA COLLEGE OF ENGINEERING
PENNALUR-602117, SRIPERUMBUDUR
DEPARTMENT OF MECHANICAL ENGINEERING

National Conference on Evolution of Green And Materials Processing Technology (NCEGMPT 2K17) March 02-03, 2017

(Sponsored by Council of Scientific and Industrial Research-New Delhi)

Activity Report

Department of Mechanical Engineering of **SRI VENKATESWARA COLLEGE OF ENGINEERING**, SRIPERUMBUDUR. TAMILNADU have organised a **National conference on Evolution of Green and Materials Processing Technology (NCEGMPT2k17)** during March 02-03, 2017. This conference was sponsored by Council of Scientific and Industrial Research (CSIR) New Delhi and co-sponsored by M/s Haier and ISTE SVCE students' chapter. This conference is technically supported by Journal of Thermal science, Progress in Industrial Ecology-An international Journal and International Journal of Energy, Environment and Economics



Among the received papers, 24 articles were selected by the technical committee for oral presentation. Papers were categorized in four different sessions and experts were invited to deliver a technical talk and also to act as chair and co-chair for the sessions..

Inaugural function of the conference was held on March 02 2017 at 9.15 AM at the function hall of Sri Venkateswara college of Engineering.

Dr. S.V. Srinivasan, Senior Scientist of Central Leather Research Institute, Chennai-20 inaugurated the function and delivered inaugural address. **Dr. M. Sivanandham, Secretary, SVCE** delivered the presidential address and released the conference proceedings. **Dr.S. Ramesh Babu, Professoer and Head of Mechanical Engineering** presided over the function. **Dr. S.Saravanan, Organising secretary** delivered the welcome address and **Dr.N.Muthukrishnan, convenor** delivered vote of Thanks.



(From Left: Dr.S.Ramesh Babu, Dr.S.V.Srinivasan, Dr. M.Sivanadham and Dr. S.Saravanan)

Events of technical sessions were started followed by inaugural function. Details of the papers presented by the participants and invited talk by experts in different sessions were detailed as session organization.

NATIONAL CONFERENCE ON EVOLUTION OF GREEN AND MATERIAL PROCESSING TECHNOLOGY (NCEGMPT 2K17)
March 02-03, 2017

Session Organization

Day	Session No	Timing in hrs	Title	Session chair	Session co-chair	No of paper presented	
03.03.17	I	10.30-11.00	Invited talk-I- Greener and Eco- friendly processing in Leather sector by Dr. S.V.Srnivasan , Senior scientist-CLRI				5
		11.00-11.30	Invited talk-II- Green Technologies in IC Engines by Dr.G.Nagarajan,Professor of Mechanical Engineering, Anna university				
		11.30-12.30	Energy and Environment	Dr. G.Nagarajan Prof./ME,College of Engineering, Guindy,Anna University. Chennai	Dr.S.V.Srinivasan Senior Scientist Environmental science and Engineering Division CSIR-CLRI, Chennai-20.		
	II	13.15-13.45	Invited talk-III- 'Recent power Train Technology-Trends and Developments' by Dr. Anand Gurupatham Senior Manager,M/s Renault Nissan Ltd				6
		13.45-14.45	Green Energy	Dr.K.Pitchandi , Prof./ME SVCE	Dr.Anand Gurupatham Senior Manager M/s Renault Nissan Ltd		
	03.03.17	III	9.00-9.30	Invited talk-IV- 'End of Life Vehicle (ELV) An Indian Prespective' by Dr. K.Bhaskar			
9.30-10.30			Advanced Technology for sustainable Environment	Dr.S.Ramesh Babu Professor and Head Department of Mechanical Engineering, SVCE	Dr.K.Bhaskar Professor and Head Department of Automobile Engineering, REC		
IV		10.45-11-30	Invited talk-V- 'Future Developments in Engine & Emission Control Technologies' by Mr. G.Senthil kumar , Divisional Manager – Engine Development, Ashok Leyland - Technical Centre				5
	11.30-12.30	Combustion	G.Senthil kumar Divisional Manager – Engine Development, Ashok Leyland - Technical Centre	N.S Prasad Scientist, CVRDE, DRDO Avadi Chennai			



(From Left: Dr. S.Saravanan and Dr.G.Nagarajan)



(From Left: Dr. K.Pitchandi and Dr.Anand Gurupatham)



From Left: Dr. K.Bhaskar and Dr.S.Ramesh Babu)



(From Left: Mr. N.S.Prasad and Mr.G.Senthilkumar)

Valedictory function of the conference was held on March 03 2017 at 2.00 PM at the function hall of Sri Venkateswara college of Engineering.

Dr. Vijay Damodaran, EGM; Vehicle Performance,General Motors, Technical Center, India delivered valedictory address and distributed the certificates to the participants. **Dr.S. Ganesh Vaidyanathan, Principal, SVCE** delivered the presidential address and **Dr.S.Ramesh Babu, Professoer and Head of Mechanical Engineering** presided over the function. **Dr.N.Muthkrishnan, convenor** delivered the welcome address and **Dr. S.Saravanan, Organising secretary** delivered vote of Thanks



(From Left: Dr.N.Muthkrishnan, Dr.S.Ramesh Babu, Dr.Vijay Damodaran, Dr. S.Ganesh Vaidyanathan and Dr. S.Saravanan)

The main theme of the conference is to emphasize the importance of green technology, in the field of automobiles and material processing industries and also to make awareness among the students, Industrialist and researchers. Technical sessions were planned accordingly and experts have delivered invited talk exposing the importance of green technologies.

Participants of this conference have benefited with more about green technologies and the green trends. This will be helpful for them to transform the economies, societies and cultures of the future.

Extended version of the Papers presented in the conference will be considered for possible publication in following international journals after a peer review.

S.no	Name of the Journal	Indexed by	Publication
1	Journal of Thermal Science (Springer Publications)	Science Citation Index ,Journal Citation Reports, SCOPUS	5 papers will be published along with regular articles
2	Progress in Industrial Ecology An International Journal (Inderscience publishers)	SCOPUS	Special Issue on: "Green and Material Processing Technologies for a Sustainable Environment http://www.inderscience.com/info/ingeneral/cfp.php?id=3720 .
3	Int. J. Energy, Environment and Economics (NOVA Publishers USA)		Special issue as proceedings of the conference

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National Conference on
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(NCEGMPT2K17)

02-03 March 2017



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(An Autonomous Institution affiliated to Anna University, Chennai)

ABOUT THE INSTITUTION:

Sri Venkateswara College of Engineering was established in the year 1985, with three academic departments. Ever since, it has grown into a premier institution imparting knowledge and excellence through academic, research and infrastructural developments. The college offers 10 UG and 10 PG courses in various Engineering disciplines. It is actively involved in many research projects funded by various industries and organizations, supported by well dedicated faculty, staff and student community. The institute is accredited by NAAC and recently granted

ABOUT THE DEPARTMENT:

The Department of Mechanical Engineering is one of the three major departments established during the beginning of the College. The department has well experienced faculty and staff members of proven ability and administrative skills. It has well equipped state-of-the-art laboratories that cater to the needs of the students. The department also takes up consultancy works from various industries. Three PG and one UG programmes are offered by the department. The UG programme is accredited by National Board of Accreditation (NBA) since 1998.

THEME OF THE CONFERENCE:

NCEGMPT is focussed to explore the recent developments of green technology in transport industry, power sectors and material processing technology. It is also aimed at creating a platform for initiating further developments in the field of green and material processing technology. This conference also aims to find a methodology to create awareness in increasing the utilization of green technology in all the sectors. It is also focussed to bring the progress of advanced engineering and intelligent systems in materials processing technologies to meet the international standards with customer safety and satisfaction. This conference is devoted to bring the experts from renowned institutions and mechanical industries, scientists and researchers in the field of energy and material processing technology to disseminate the regional, national and international issues and develop a feasible practical plan for effective speedy growth in achieving sustainable energy and environment for the future.

CALL FOR PAPERS:

- Papers are invited in topics of interest that include, but are not limited to:
- Green Energy, Renewable Sources of Energy, Bio Fuels, New and emerging technologies like hydrogen and fuel cells
 - Vehicle engineering, emission control, Sustainable fuel
 - Energy saving, Economics, Environmental aspects
 - Bio and Bio-based materials, characterization and studies

PAPER SUBMISSION and PUBLICATION:

Manuscript shall be submitted along with registration fee & form. The manuscript should be typed in Times New Roman font, size 12, with single line spacing. Soft copy of the manuscript shall be sent to ncegmpt2k17@svce.ac.in. The manuscript should clearly indicate the title, author(s), email address, postal address and key words. All the future correspondence shall be done only with corresponding author. All the papers submitted will be peer reviewed and invited for presentation. Accepted papers will be published in conference proceedings. Selected papers with acceptable novelty and quality will be considered for publication in any one of the following international journals.

S.no	Name of the Journal	Indexed by	Publication
1	Journal of Thermal Science (ISL no. 1912, AU-Annexure-I, Springer Publications)	Science Citation Index, Journal Citation Reports, SCOPUS	5-10 papers will be published along with regular articles
2	Progress in Industrial Ecology, An International Journal (ISL no 383, AU-Annexure II, Inderscience publishers)	SCOPUS	Selected papers will be published as a special issue
3	Int. J. Energy, Environment and Economics (ISL no. 1018, AU-Annexure I, I DOVA Publishers USA)		

IMPORTANT DATES

Full paper Submission	: 08.01.2017
Intimation of acceptance (by email)	: 15.01.2017
Camera ready paper submission (Journal)	: 10.02.2017

REGISTRATION FEES:

Industry	Rs. 2000/-
Researcher/Academia	Rs. 1500/-
UG/PG students	Rs. 1000/-

Registration fee is to be paid as demand draft in favour of 'The Principal, Sri Venkateswara College of Engineering' payable at Chennai. It includes conference kit, proceedings, certificates, lunch and refreshment.

ACCOMMODATION & TRANSPORTATION

Accommodation will be arranged in nearby hotels on payment basis to participants on request. All participants can commute using college buses from nearby areas. The details of bus routes are available on our website www.svce.ac.in.

Address for Correspondence:

Dr. S. Saravanan,
Organizing Secretary, NCEGMPT2K17,
Dept. of Mechanical Engineering,
Sri Venkateswara College of Engineering,
Ponnalur, Sriperumbudur tk., Tamilnadu - 602117,
Mob. - 9884096626, 9894752977, 9865223922, 9790567576, 9994042052
Email - ncegmpt2k17@svce.ac.in

Star Performer Faculty Name:Dr.S.Saravanan, Professor/Mechanical

Star performer Student Name: S.P.ARUNRAM (ananthkumar@svce.ac.in)

PARTICIPATION DETAILS:

No.of Internal/external Students participated: 30

No.of Internal/external Faculties participated: 17

MEDIA



Recommendations of the
National conference on EVOLUTION OF GREEN AND MATERIAL PROCESSING
TECHNOLOGY 2k17

Technology should not affect our ecological system and it is time to implement concept of green technologies. Green technology is not related to pollution, climate change and ecology system, but it is all about human beings and our need for growth

Technologies should be developed by thoroughly examining their effects on the world around us. Our Technical advances also give us the science to develop technologies which improve our daily life and also our future and the world environment.

NO Compromise on NATURE for Technology Development



Dr.S.SARAVANAN
Organizing Secretary- NCEGMPT2k17