

Themes

- Art of waste recycling
- Water weeds upcycling
- Waste as construction materials
- Waste as fuels
- Waste to energy
- Trash to cash
- Waste water recycling

4th - 6th March,
2020
@ Hotel Apollo
Dimora,
Trivandrum

NATIONAL SEMINAR CUM EXHIBITION ON "WASTE TO WEALTH: OPPORTUNITIES AND CHALLENGES"

Jointly Organized by,

Translational Research & Professional Leadership
Centre [TPLC], Government Engineering College,
Bartonhill, Thiruvananthapuram

&

Ecoloop 360, 12/TBI, Government Engineering
College, Bartonhill, Thiruvananthapuram



Sponsored by,

Directorate of Technical
Education [DTE],
Government of Kerala
&
Kerala Development and
Innovation Strategic Council
[K-DISC],
Government of Kerala



greenevent





Dear Friends,

GREETING FROM TPLC AND ECOLOOP₃₆₀!

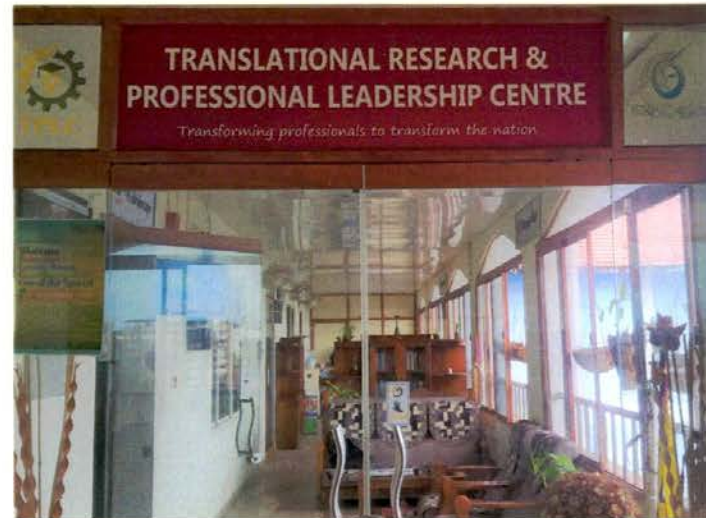
We are extremely delighted to announce the three day National Seminar on "**Waste to Wealth: Opportunities and Challenges**", from 4th to 6th March, 2020 at Trivandrum, Kerala. Waste management is vital for sustainable development both environmentally and economically. Living in a world where depletion of resources is beyond control, it is crucial to ensure that they are well-preserved, fully utilized and efficiently managed. The idea of recovering wealth in the waste becomes imperative to aid mankind's pursuit for development in a sustainable manner. There are lot of initiatives to manage waste but most of them goes in vain because of not being able to identify wealth in waste. For this to work, recycling, reuse and recovery of resources is essential, forming an integrated approach towards waste management. Finding innovative solutions for effective management of waste is difficult as breakdown of waste requires special processes that entail time, energy, and expense. The new thinking is to address the problem at the grassroots starting at the very origin of waste generation. It is now recognized that we cannot afford to lose it as mere 'waste'. Instead, it is important to view 'waste' as a valuable 'resource' that can be converted into a variety of useful products. We cordially invite you to join us for this event, where you will be able to meet innovators, change makers and share stories of your passion towards a sustainable community.

**GOVERNMENT ENGINEERING COLLEGE,
BARTON HILL (GECBH)**



**TRANSLATIONAL RESEARCH AND
PROFESSIONAL LEADERSHIP CENTRE(TPLC)**

Government Engineering College, Barton Hill (GECBH) is one of the prominent technological institutes in Kerala. Founded in the year 1999, the college now offers five full time B. Tech. degree courses and five full time M. Tech degree courses. In addition the institution conducts a one year Advanced Diploma in Automotive Mechatronics. Within a short span of 19 years, the institution has grown to a position of eminence among technical institutions in this part of the country. The academic results and placement records of the institution is now the best in the State. With several new initiatives and professional activities GECBH is in the forefront of technical education.



**TRANSLATIONAL RESEARCH AND
PROFESSIONAL LEADERSHIP CENTRE
(TPLC)**

Translational Engineering is a niche area that focus on extending technology to the society in a seamless and humanistic manner. Translational Research and Professional Leadership Centre (TPLC) is a promising research centre, working in collaboration with technical University Delft, Netherlands & IITM, Chennai, which focus on promoting programmes on bridging the gap between Research and Practice.

ECOLOOP 360

Ecloop 360 is a Startup India and Kerala startup mission recognized firm, working under the theme of sustainability with focus on smart, eco-friendly and climate-positive solutions. It is based at Trivandrum, Kerala and it is formed by a team of multi-disciplinary engineers with master's degree in Translational Engineering and having experience in doing socially relevant and innovation oriented projects for the Government of Kerala.

**DIRECTORATE OF TECHNICAL
EDUCATION**

Directorate of Technical Education, Kerala maintains and enhances the quality of technical education by laying the policies, by establishing and developing Government Institutions. DTE also involves in guiding and supervising the aided private institutions, interacting with industry and national level institutions, and coordinates with other central and state government bodies. The department thus contribute for the development of industry and society at large.

K-DISC

The Kerala Development and Innovation Strategy Council, (K-DISC) is a strategic think-tank and advisory body constituted by the Government of Kerala. K-DISC aims at bringing out path-breaking strategic plans that reflect new directions in technology, product and process innovations, social shaping of technology and creating a healthy and conducive ecosystem for fostering innovations in the State.

SPEAKERS

Eminent speakers from the industry, academia and research organizations are being invited to deliver key note speeches such as



Dr. T.M. Thomas Issac
Minister of Finance and coir,
Govt. of Kerala



Dr. K.M. Abraham IAS
Chairman, K-DISC
Chief Executive Officer, KIIIFB



Dr. Usha Titus IAS
Principal Secretary
Department of Higher Education,
Govt. of Kerala



Dr. K.P. Indiradevi
Director of Technical
Education, Govt. of Kerala



V.K. Prashanth
Member of Legislative Assembly,
Vattiyoorkavu



Dr. Munish Chandel
Professor, IIT Bombay



Dr. Suresh K
Principal in-charge, GECBH



Dr. R. Vasudevan,
Plastic Man of India



Dr. Babu J Alappat
Professor, IIT Delhi



Dr. T.R. Sreekrishnan
Professor, IIT Delhi



Dr. Gaurav Mishra
Director, SPRERI, Gujarat



Smt. Madhulika Choudhary
Head, Dhruvansh NGO



Dr. A. Gangagni Rao
Chief Scientist (CSIR-IICT) &
Professor in Engineering
Sciences (AcSIR)



Sri. Sourav Kumar
Scientist, CSIR-Central
Scientific Instruments Organization



Dr. A. Ramalinga Chandra Sekar
Assistant Professor
Dept. Of. Chemistry, Thiagarajar
College of Engineering



Sri. Shubham Awasthi
Assistant Professor
GEC Banswara



Sri. Sridhar Radhakrishnan
Director, People Planet
and Sustainability



Sri. V.R. Reghunandan
Professor, IRTC



Sri. Shibu K. Nair
Programme Director, Thanal



Sri. Abdul Mujeeb
Founder, Allika

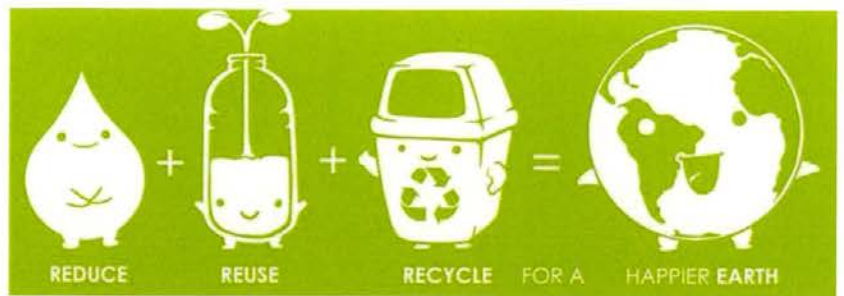


Sunil Ahamed.C.H
CEO, Venad Resource
Management



Sri. Abhijith K M
Founder, Carbon Kraft

Background of the seminar



With nearly 17.71% of global population,

India is currently the second most populous nation in the world. By 2050 India's population is expected to touch 1.6 billion. Rapid economic growth, urbanization, and industrialization alongside this population explosion continues to generate significant waste and adversely impact our environment. In a common man's eye, anything that is unwanted or not useful is considered as garbage or waste. However, scientifically speaking there is no waste as such in the world. Almost all the components of solid waste have some potential if it is converted or treated in a scientific manner. Therein lies a unique opportunity for newer business models and innovations in waste management in India. Waste to Wealth is about creating economic benefits out of what was traditionally regarded as waste. Given the magnitude of waste generated, innovative waste conversion processes can create micro-entrepreneurship opportunities on a massive scale. In India, the potential of waste to wealth enterprise is very high. Increasing opportunities for this enterprise can have manifold advantages. Waste management that leads to generation of substances and products that can be put to primary use is an emerging major sector for employment to meet the livelihood needs of the vast majority of India's rapidly growing population. With an unmatched consumer base, India today is an attractive investment destination for waste recycling technologies. Overall the commercial outlay in this sector is expected to touch US\$13.62 billion by 2025.

Objectives

- To organise a platform to meet and greet the keynote speakers & delegates
- To discuss the ongoing and completed research works in the field of waste management.
- To explore new research themes.
- Evaluation of transforming ideas to a practical base.
- Familiarisation of new innovations that have successfully emerged in the field of research.
- Opportunity for Start Ups and firms to share their products/prototypes, ideologies, their success/ failure stories to youngsters.

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Chief Patron

Dr. T. M. Thomas Issac
Minister of Finance and coir
Govt. of Kerala

Patron

Dr. Usha Titus IAS
Principal Secretary,
Department of Higher Education,
Govt. of Kerala

ORGANISING COMMITTEE

Organising Chair Persons

Dr KP Indira Devi
Director,
Department of Technical Education
Govt. of Kerala

Dr. Suresh K
Principal in-charge, GECBH

Coordinators

Dr. Suja R
Co-ordinator, TPLC
Dr. Hema Ramachandran
Faculty, TPLC

Ms. Ardra S
Co-founder, Ecoloop 360

Mr. Abhijith S
Co-founder, Ecoloop 360

REGISTRATION FEE

- Faculty/Professionals : ₹ 1000 /-
- Students/Research Scholars : ₹ 500 /-
- Exhibition stall : ₹ 1500 /-

WHO CAN APPLY

Professionals, Faculty, Students, Research Scholars, Non-Profit Organizations and Start-ups who are interested in Waste Management are cordially invited.

MODE OF REGISTRATION

For Participants/Exhibition stall, registration can be done through the following online link. The last date of registration is **26th February, 2020**

http://www.tplc.gecbh.ac.in/?page_id=2583

PAYMENT DETAILS

Payment can be made online through NEFT to TPLC Account or through DD in favour of Principal, GEC .Barton Hill, payable at Trivandrum.

ACCOUNT DETAILS

Account Name: TPLC
Account No. : 67314066447
Bank: SBI Vikas Bhavan,
Thiruvananthapuram
IFSC: SBIN0070415

POSTAL ADDRESS

The Co-ordinator,
TPLC, Government Engineering
College, Barton Hill,
Thiruvananthapuram-695035
e-mail id: tplc.gecbh@gmail.com

CONTACT

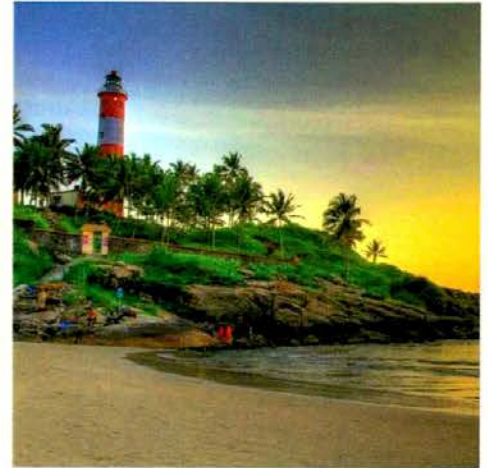
Dr.SujaR: 9495058367
Dr.Hema Ramachandran: 9495904577
Ms. Ardra S - 7736360529
Office: 7736136161
E-mail: tplc.gecbh@gmail.com
Website: www.gecbh.ac.in

TOURIST DESTINATIONS NEAR TRIVANDRUM

Special tour packages for participants can be arranged on request

KOVALAM:

An Internationally renowned beach with three adjacent crescent beaches. It has been a favourite haunt of tourists, since the 1930s. A high rocky promontory jutting into the sea has created a beautiful bay of calm waters for sea bathing. The beach has Ayurvedic health resorts, convention facilities, shopping zones, swimming pools, Yoga and Ayurvedic massage centre. The tropical sun acts so fast that one can see the faint blush of coppery tan on the skin in a matter of minutes. The Haleyon castle, the Rajiv Gandhi Convention Centre are the attractions near the beach.



PONMUDI:

An idyllic hill station with winding pathways and cool, green, wooded environs, Ponmudi is located 915 metres above the sea level. Along with a variety of beautiful mountain flowers, exotic butterflies, small rivulets, springs and the deer park nearby, this hill station also has excellent trekking trails. It is located about 61 km north east of Thiruvananthapuram city and is a part of the Western Ghats mountain range that runs parallel to the Arabian sea. Meenmutty Falls is one of the major attractions near Ponmudi.

PADMANABHASWAMY TEMPLE:

Dedicated to Lord Vishnu, the temple is a blend of the Kerala and Dravidian styles of architecture. One among rare Vishnu temples in, the presiding deity here is of Lord Vishnu reclining on Anantha Serpent. The temple is a place for art lovers and is also known for its mural paintings and stone carvings. It is estimated that the value of the monumental assets of the temple partially revealed are close to Rs1,00,000 crore(US 16 billion). The temple stands close to the holy tank called Padma Theertham which means 'lotus spring'. The temple is located at the East Fort in Thiruvananthapuram.



ADVANCED DIPLOMA IN AUTOMOTIVE MECHATRONICS (ADAM)

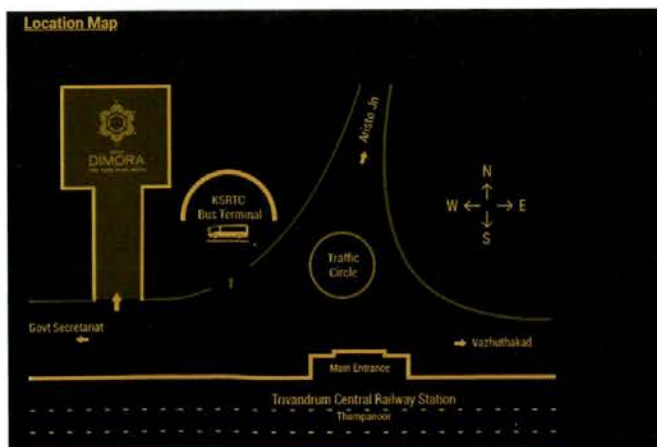
Advanced Diploma in Automotive Mechatronics is a one year course introduced at Govt. Engineering College, Barton Hill in collaboration with Mercedes Benz, India in the year 2014. The collaborative course designed by M/s Mercedes Benz, India will enable students to be trained as per the highest standards of modern automotive technology and thereby will bring added synergies between technological innovations and market demands for skilled personnel.

BAMBOO RESEARCH CENTER, GECBH (BRC)

Bamboo is universally admired for its pleasing shapes, colors and overall aesthetic and as a renewable resource that grows quickly and has low impact requirements for land area, water and nutrients. Govt. Engg College, Barton Hill was selected for the implementation of Bamboo Technology Center by Govt. of Kerala in March 2016. The main objectives of the center are to promote research, standardize bamboo as an engineering material, provide database to support the development of codes, guidelines, standards and manual for sustainable infrastructure development.



Venue: Hotel Apollo Dimora
Opposite Thiruvananthapuram Central Railway Station
Thampanoor, Thiruvananthapuram



GOVERNMENT ENGINEERING COLLEGE

Barton Hill, Trivandrum, Kerala- 695035

**TRANSLATIONAL RESEARCH AND
PROFESSIONAL LEADERSHIP CENTRE
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Website: www.tplc.gecbh.ac.in

ECOLOOP 360

Website: www.ecoloop360.com