

**NATIONAL SYMPOSIUM ON ENGINEERING APPLICATIONS TO SOLVE HUMAN PROBLEMS  
ON SHELTER, WATER, FOOD, HEALTH AND ENERGY**

**HELD AT KAUNYA UNIVERSITY, KARUNYA NAGAR, COIMBATORE – 641114.**

**REPORT**

On **5th October 2016**, Department of civil Engineering organized a national symposium on the topic engineering applications to solve human problems on Water, Food, Health, Energy and Shelter. The event has included presentations of students from various Engineering colleges of Tamil Nadu & Kerala, inspirational speakers shared the innovative ideas to bring solutions to

**Water:** physical water scarcity, economic water scarcity, water purity, Recycling and Reuse of Water, Point of Use & small scale treatment, Improving Water Quality, Improving water resources.

**Food:** Food security, eradication of hunger, food safety, Lack of equal access, food inflation, Agricultural practices in Tamil Nadu, New eco-friendly techniques in agriculture. Organic farming, pesticides, crop yield.

**Health:** malnutrition, infant mortality, poor sanitation, rural health issues, access to medicines, inadequate safe drinking water.

**Energy :** energy trilemma, energy security, energy sustainability, energy equity, energy crisis, renewable energy – solar, Wind, geothermal, landfill gas, anaerobic digestion, pyrolysis, hydropower, Solar panels in transportation, wind energy in transportation,

**Shelter:** Homelessness, modular housing, economic housing, sustainable housing, affordable housing, slum upgrading, multi dwelling residential unit for slums. Though we have raised most of the funds for our event, we need support to pay for the necessary advertisements and printing. A Sponsorship amount of Rs.25000/- has been generated to conduct this event from the following agencies GATE Academy, IDP, CADD Centre, DAAS Construction, Terzhagi Institute and Kishen Construction. Er.K.Murugesan, chief engineer, TWAD board, Western region Tamilnadu and Dr.Paul Dhinakaran, Chancellor Karunya University, inaugurated the symposium along with the dignitaries Dr. M.J. Xavier, Vice Chancellor, Dr. G. Prince Arulraj, Director of E&T, Dr. P.D. Arumairaj, HOD, School of Civil and Mechanical Engineering and Dr. J. Brema, Programme Co-ordinator, Department of Civil Engineering presided. There were a total of 541 participants which comprises as below.

*Students from other Institutions – 266*

*Students from Karunya University – 275*

In the inaugural address our chief guest Er.K.Murugesan mentioned the importance of water as, “Development of the society is completely based on the availability of water in the society, for which TWAD board achieved a continued 365 days water supply in all 9 districts, so it’s everyone’s responsibility to save every drop of water in our daily activities”

Honourable Chancellor with his encouraging words to students has put through the need for solving basic human needs “bring solutions for society, make hope come for others. Let’s be door openers for others” he also congratulated department of civil engineering for organizing first national symposium in Karunya University infusing 30 years of university celebrations. He encouraged everyone to be a part of events which ingrain the values of Karunya’s mission.

**Outcome of this National Symposium**

- Participants enhanced their technical knowledge through various innovative solution shared in different sessions from the institution of southern India.
- Symposium ingrained the mission of our university for our students.
- Fund generated through sponsorship of Rs.25000/- and registration of Rs. 63350 to the university.
- Interaction with TWAD Board engineers and the participants.
- Participants benefitted with the technical expertise in the areas of Shelter, Water, Food, Health and Energy.
- Students enhanced their aptitude skill through various competition held which includes Quiz, GTT, Pitch It and Wordsworth.
- Knowledge sharing between our university students with students of other institution.

- Student organiser and volunteers enhances their managerial skill in the way of collecting fund generation, organising different competition.
- Student volunteers enhances their technical skills in the way of developing the website and android application through the guidance of the faculty.
- Student volunteers enhances their extracurricular skills in the way of composed the theme song and mime for the symposium.