

**Online Faculty Development Program**  
*on*  
**“Sustainable Development in Energy and Environment”**

<b>Program Details</b>	
<b>Monday, 8<sup>th</sup> November 2021</b>	
<b>10.00am - 12.00 - Inauguration and Keynote Address</b>	
<p>Shri. Narendra Nath Veluri, IFS            CEO – ANERT (Agency for New and Renewable Energy Research and Technology), Department of Power, Government of Kerala</p>	<p>After entering the prestigious Indian Forest Service and serving for 8 years in the Kerala Forest Department with much experience in dealing human elephant conflict, he has been on State Deputation to Power department as CEO, ANERT. He has played a crucial role in boundary consolidation of forests, for which he received Good Service Entry.</p>
<b>1.30pm - 3.30pm - “Laurie Baker's Approach for Sustainability”</b>	
<p>Ar. R.D. Padmakumar            COSTFORD &amp;            Laurie Baker Centre for Habitat studies</p>	<p>An architect by education and practice, he worked at HUDCO (Housing and Urban Development corporation) as General Manager. He began his professional life at COSTFORD under Laurie Baker. As an admirer of Baker's philosophy, he actively participated during the formation of LBC. Having done his higher studies at Institute of Housing Studies, Rotterdam on Inner City Revitalization and Urban Heritage, he has been engaged in dissemination of alternative approaches in architecture, design, building materials and construction and in establishing and running of agencies engaged in the above works. He established and ran the Laurie Baker Building Centre at R K Puram, New Delhi, with the support of HUDCO and Slum &amp; JJ Department of Municipal Corporation of Delhi.</p>
<b>Tuesday, 9<sup>th</sup> November 2021</b>	
<b>10.00am - 12.00 - “Mapping the opportunities of energy efficiency and renewable energy in Indians energy transition”</b>	
<p>Shri. Narayankumar Sreekumar            Associate Director - Electricity &amp; Fuels at TERI - The Energy and Resources Institute</p>	<p>An experienced Research Fellow with a demonstrated history of working in various dimensions of power sector, he has more than nine years of experience in the power sector working with various stakeholders such as generation and distribution companies, regulatory commissions, policy makers and bilateral &amp; multilateral development organizations. He has also been extensively involved in development of Demand Side Management (DSM) action plans based on load research and Smart Grid road map for various distribution companies across the country. Apart from this, he has assisted various distribution companies and regulatory commissions in developing models for estimating of cost of supply, network planning and loss estimation.</p>

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<b>Tuesday, 9th November 2021</b>	
<b>1.30pm-3.30pm - “Nuclear energy - Clean energy”</b>	
<p>Shri. A. V. Sathish  Scientific Officer,  Kudankulam Nuclear Power Plant,  Dept. of Atomic Energy</p>	<p>He has a Bachelor’s degree in Physics and took one year training at Bhabha Atomic Research Centre in Health physics (Radiation protection) programme. He has more than 20 years of professional experience in health physics aspects in various types of nuclear reactors. He completed Executive Programme on Business management from Indian institute of management, Calcutta to understand the multinational organization culture and recent development in business environment. He has worked on and learned a great deal from several very interesting nuclear research as well as commercial projects. Currently he is leading an extremely talented professional team to execute the radiological safety of the occupational workers, public and environment. His areas of expertise are : Radiation protection aspects of ionizing radiation, interpretation and analysis of related data, implementation of advanced technologies in the field, regulatory documentation, emergency preparedness program and deliver lectures on radiation aspects etc.</p>
<b>Wednesday, 10<sup>th</sup> November 2021</b>	
<b>10.00am - 12.00 - “Bioenergy”</b>	
<p>Dr Krishnakumar B,  Senior Principal Scientist &amp; Professor,  CSIR</p>	<p>A well-renowned scientist working on environment clean-up technologies at CSIR-NIIST, one of the National research Institutes under CSIR (Govt. of India), he has published 48 research publications. He was awarded with STA Postdoctoral fellowship by Govt. of Japan, International foundation for Science, Sweden research grant, Research fellowship by CSIR, Best paper in Kerala Science Congress in 2011, 2013 and 2018.</p>
<b>1.30pm-3.30pm - "Sustainability in Product Development"</b>	
<p>Dr. Rijo Jacob Thomas,  Asst. Professor,  Dept. of Mechanical Engineering,  TKMCE Kollam</p>	<p>He did his doctorate in Cryogenics from Indian Institute Technology (IIT) Kharagpur. He is currently associated with research groups in Masdar University, UAE and Mahidol University, Thailand. He is the reviewer for the international journal 'Engineering Applications of Computational Fluid Mechanics'. His current areas of research are LNG technologies, Emissivity studies at cryogenic temperatures and Cryogenic process modelling and analysis.</p>

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<b>Thursday, 11<sup>th</sup> November 2021</b>	
<b>10.00am - 12.00 - “Electric vehicles – The future mobility”</b>	
<p>Dr. Sheik Mohammed S.  Assistant Professor,  Dept. of Electrical and Electronics  Engineering, TKM College of  Engineering,  Kollam, Kerala</p>	<p>He did his doctorate in Electrical Engineering. He has published 21 research papers in reputed Journals and Conferences. He has been awarded with a research fund of 6.75 lakhs by Directorate of Environment and Climate Change, Kerala, India for developing “Solar Powered Grid Connected Charging Stations for Electric Vehicles”</p>
<b>1.30pm-3.30pm - “Bio-mimicking”</b>	
<p>Dr.R.L Rag  Professor and Head  Dept. of Mechanical Engineering,  SCMS School of Engineering</p>	<p>He did his doctorate in Mechanical Engineering from NIT Calicut. He has published many research papers in reputed Journals and Conferences. He is guiding three research scholars for PhD program under Kerala Technological University. He has authored a book on Sustainable Engineering published by PHI Publications.</p>
<b>Friday, 12<sup>th</sup> November 2021</b>	
<b>10.00am - 12.00 - “Geothermal Energy – A renewable base-load energy source”</b>	
<p>Dr. Rahul Prabhakaran  Post Doctoral Researcher, Geozentrum  Nordbayern,  Fredrich-Alexander-Universitat  Erlangen-Nurnberg  Germany</p>	<p>He completed his B.Tech and M.Tech in Mechanical Engineering from TKM College of Engineering, Kollam and MSc in Petroleum Engineering from TU Delft, Netherlands. He has worked in Elgi Equipments, Coimbatore as a Mechanical Engineer and joined in Oil and Natural Gas Corporation (ONGC) as Asst. Executive Engineer. He has completed PhD in Geology, at TU Delft / TU Eindhoven, Netherlands. Currently he is pursuing Post-Doctoral fellowship.</p>
<b>1.30pm-3.30pm</b>	
<b>Feedback and Valedictory session</b>	