



Pune Knowledge Cluster presents

BIOCHARRING – A Solution to Multiple Sustainability Challenges

Organized By	Pune Knowledge Cluster (PKC)
Date	5 th December 2022
Time	4:00 – 5:00 pm (IST)
Location	Online
Description of the talk series	PKC's sustainability and environmental initiatives are focused towards making Pune resilient in terms of food, water and livelihood. Achievement of this goal requires increasing vegetation cover, which other than food, water and livelihood security can also help in climate change mitigation. This also helps in multiple other ways such as increased carbon storage, reduced emissions of GHGs and support industries. PKCs Sust-En series consists of public talks, focused group discussions and workshops with experts in the environment and sustainability space. Through this series, we aim to promote collaborations, co-creation of technologies and conceptualization of city scale projects to solve key issues related to carbon emissions, waste water treatment, improving air quality and green energy production.
Abstract	Open burning of garden and farm waste is a prominent source of air pollution during winter for both rural and urban areas. While composting is the standard recommendation for managing such wastes, there are often situations when it is not a practically feasible option and that is precisely why people end up burning up the waste. Biocharring (controlled and pollution free burning to remove volatile gases, leaving behind nearly pure elemental carbon) can solve this problem in an effective manner. Biocharring also provides solutions for several other challenges such as energy security, food security, etc., while creating a green entrepreneurial opportunity. Furthermore, it is the world's cheapest carbon capture and storage (CCS) technology. The talk will describe the various possibilities around biocharring to address several sustainability and climate change challenges.
For whom (Target Audience)	Open for all
Potential Gains	Public awareness about biocharring, sustainable living
Registration Link & Eligibility	Open for all Registrtrtion Link: https://forms.gle/G27xhim2G8sNsrnS9



Profiles of Speaker



Dr. Priyadarshini Karve, Managing Director, Samuchit Enviro Tech

Dr. Priyadarshini Karve (Ph.D. in Physics, University of Pune, 1998) is a founder director of **Samuchit Enviro Tech**, a social green enterprise promoting environmentally sustainable lifestyle products and services since 2005. The organic waste to biochar technology developed by her won the Ashden Award for Renewable Energy in 2002. In a career spanning nearly 25 years, she has developed and promoted decentralised organic waste to fuel technologies and improved cook stoves based on biomass fuels. She has invented an easy-to-use Samuchit Carbon Footprint Calculator for citizen and conducts workshops on climate friendly lifestyle, sustainable urbanisation. She is a CoFounder of OrjaBox LLP, a green start-up, from 2021. She is a Founder Member and on the Board of Directors of Clean Energy Access Network (CLEAN), a registered society in India and serves on the Governing and Advisory Bodies of many national, international organisations. She is also the National Convener of Indian Network on Ethics and Climate Change (INECC). She teaches courses on Sustainability, Physics, and Big History (History of the Universe) at Symbiosis School for Liberal Arts (SSLA), Pune, India. She is co-editor of 'Shaikshanik Sandarbh' a Marathi language bimonthly on Science and Education. Her work has been honoured by various national and international awards and accolades..

About the Organizer



The Pune Knowledge Cluster (PKC) has been established by the Office of the Principal Scientific Adviser to the Government of India. It aims to bring together academia, R&D institutions, and the industry of Pune and its surrounding areas, to address the challenging problems of the region through innovative means, using scientific knowledge and engaging highly skilled human resources.

PKC is administered by the Inter-University Centre for Astronomy and Astrophysics (IUCAA). In the initial phase, PKC would focus on Health, Sustainability and Environment, Sustainable Mobility, BIG Data and AI and Capacity Building

For more information, visit: <https://www.pkc.org.in/>