

Agenda

Day One (June 17, 2019, Monday)

07:30 - 08:30 Breakfast
08:30 - 08:45 Welcome and Introduction
08:45 - 09:45 Forests and Climate Change
09:45 - 10:30 Break
10:30 - 11:30 Global Bioenergy Policies
11:30 - 12:30 Bioenergy Certification
12:30 - 01:30 Lunch
01:30 - 02:30 Bioenergy Conversion Technologies
02:30 - 03:30 Forest Growth and Yield Modelling
03:30 - 03:45 Break
03:45 - 05:30 Group Exercise – I

Day Two (June 18, 2019, Tuesday)

07:30 - 08:00 Breakfast
08:00 - 09:00 Life Cycle Assessment
09:00 - 10:00 Modelling for Life Cycle Assessment
10:00 - 10:30 Break
10:30 - 12:00 Group Exercise – II
12:00 - 01:00 Economics of Wood-based Electricity Generation
01:00 - 02:00 Lunch
02:00 - 03:00 Modelling Economics of Wood-based Electricity Generation
03:00 - 03:30 Estimating Carbon Abatement Cost
03:30 - 03:45 Break
03:45 - 05:15 Group Exercise – III

Day Three (June 19, 2019, Wednesday)

07:30 - 08:00: Breakfast
08:00 - 09:00: Sustainable Bioenergy Development in India
09:00 - 01:00: Field Visit (CIAE Biofuel Plant, MANA, Raisen)
01:00 - 02:00: Lunch
02:00 - 03:00: Social Perspectives on Bioenergy Development
03:00 - 03:30: Research Gaps
03:30 - 04:00: Coffee Break
04:00 - 04:30: Feedback
04:30 - 05:00: Graduation

Instructors

Dr. Manmohan Yadav
Indian Institute of Forest Management, Bhopal

Dr. Puneet Dwivedi
Warnell School of Forestry and Natural Resources,
University of Georgia

Mr. Ashish Mishra
Vikalp Ahead Renewables Private Limited, Bangalore

Dr. Anil Kumar Dubey
Central Institute of Agricultural Engineering, Bhopal

Who Should Attend

Renewable Energy Professionals, Forest Industry Professionals, Senior and Junior Government Officials, Field Foresters, Wood Buyers, Non-Profits, Faculties, Researchers and Graduate Students.

Registration

Form is available at IIFM website
www.iifm.ac.in/mdp-biofuel

Please send the filled in registration form at
mdpoffice@iifm.ac.in or manmohan@iifm.ac.in

Course Fee: Rs 35000/- + GST per person



International Short Course

Analyzing the Global Sustainability
of Forest-based Bioenergy Development with
Special Focus on Utilizing Wood Pellets for
Electricity Generation

Jointly Organised by

Indian Institute of Forest Management and
Warnell School of Forestry and Natural Resources,
University of Georgia



17 - 19 June 2019

Residential Course at
Indian Institute of Forest Management
PO Box 357, Nehru Nagar, Bhopal,
Madhya Pradesh, India - 462003

About the course

Analyzing the Global Sustainability of Forest-based Bioenergy Development with Special Focus on Utilizing Wood Pellets for Electricity Generation

The production of wood-based energy products in general and wood pellets, in particular, for electricity production is increasing worldwide. Simultaneously, there is an interest in producing liquid fuels from wood-based feedstocks. It is important to understand issues related to the sustainability of wood-based energy products (e.g., current and future markets, carbon intensity, unit cost of production, direct and indirect land use changes, certification) for developing a better understanding about the future of wood-based energy products in the context of growing demand for renewable energy. In this short course, a mix of lectures and hands-on exercises coupled with a short field visit will help workshop participants in developing an advanced understanding and some basic skills for evaluating the overall sustainability of a wood-based energy enterprise.

Equipment Needs

All participants must bring a laptop computer with Microsoft Excel version 2007 or later. Files used for the class will be transferred from a flash drive or provided on a CD.

Faculty Biographical Sketch

Dr. Puneet Dwivedi is an Associate Professor at the University of Georgia's Warnell School of Forestry and Natural Resources. He specializes in the area of wood-based bioenergy development, forest-based ecosystem services, forest certification, and forest-based communities. After successfully defending his doctoral dissertation in 2010 at the University of Florida's School of Forest Resources and Conservation, Dr. Dwivedi worked as a postdoctoral research associate at Yale University's School of Forestry & Environmental Studies (2010-2012) and the University of Illinois's Energy Biosciences Institute (2012-2013). He joined the University of Georgia as a faculty member in October of 2013 as an assistant professor of forest sustainability and was promoted to associate professor with tenure in July of 2018. Dr. Dwivedi's research on issues situated at the interface of society, economic, and environmental spheres of sustainability is supported by various federal agencies, state agencies, and several foundations. Dr. Dwivedi has published over 60 refereed journal articles and is currently serving as an Academic Editor at PLOS One and as a Member of Editorial Advisory Board at Global Change Biology Bioenergy.



Mr. Ashish Mishra is a professional and entrepreneur with over two decades of experience in sustainable forest management, industrial wood supply chains, and biomass-based fuels. He is currently Managing Director at his venture - Vikalp Ahead Renewables Private Limited, a company engaged in sustainability-based consultancy, wood supply chains and manufacturing of renewable fuels from agro-forestry biomass. An alumnus of the IIFM-Bhopal, Mr. Mishra is acclaimed for his contribution to industrial forestry & sustainable forest management. Mr. Mishra has served at senior management positions in Aditya Birla Group and WWF-India handling entire gamut of sustainable forest management. Mr. Mishra is also contributing as Think Tank, Lead Auditor and Specialist for industry oriented sustainable forest management for MoEFCC including formulation of Indian standards for sustainable forest management, advising & mentoring major wood-based industries on long term sustainable wood sourcing for their ongoing and new ventures.



Dr. Manmohan Yadav is an Associate Professor and the Coordinator, Centre for Sustainable Forest Management and Forest Certification at the Indian Institute of Forest Management, Bhopal. He specializes on green marketing, sustainable natural resource management, and forest certification. He has written 04 books and 02 monographs. His latest book "Handbook on Forest Certification" is a textbook for academic and executive training programs at IIFM. Dr. Yadav has supervised 04 doctoral students (03 have defended their thesis while 01 has submitted thesis for examination). He has undertaken several international and national research and consulting assignments. Dr. Yadav has conducted about 30 training courses for professionals and policymakers on topics related to sustainable natural resource management and forest certification. The Centre, coordinated by Dr. Yadav works as a think-tank for the Government of India, Ministry of Environment, Forest and Climate Change on topics like SFM and Forest Certification. His research interest includes sustainable management of natural resources, marketing, branding of natural products, and green consumer behaviour.



Dr. Anil Kumar Dubey is the Head, Agricultural Energy & Power Division, ICAR-CIAE, Bhopal. He has 38 years of professional experience in Research, Development and Extension related to Farm Machinery, Power and Biofuel. He is a M.Tech. in Thermal Engineering and a Doctorate in Mechanical Engineering. He has been a guest researcher at KTH, Stockholm for the project on Integration of solid oxide fuel cell with bio fuel and development of Solid Oxide Fuel Cell. He has valuable contribution in Biomass based Decentralized Power Generation, Hydrogen Generation from Biomass, Development of Bio Diesel Plant, Development of Portable Updraft Gasifier and Development of Natural Draft Gasifier. Dr. Dubey has 28 publications in National and International Journals and 15 Book Chapters and Bulletins. He has undertaken 28 research projects and has guided 9 Master's and 3 Doctoral students.

