

How to make and use biochar in permaculture with Bogdan Popov

Time: 19-20. September

Place: Nordenga ecological course farm at Råstadbakka 72, 2730 Lunner (see road description below)

Price: 1700 NOK, this includes course fee, lunch and refreshments both days.

Registration: By Monday the 14th of September to petterjenssen93@gmail.com

Payment: By the time of registration, Jordens Gleder bank account 12546284040 or Vipps to #550646 (Jordens Gleder)

Accommodation: Camping at the farm or hotels in Hadeland (see below).

The seminar is organized by: Jordens Gleder in cooperation with «Oslo og Omegn» branch of the Norwegian permaculture society.

Contact person: Petter D. Jenssen, petterjenssen93@gmail.com, 91377360



Biochar has become popular in recent years for use in soil remediation and improving soil fertility, but also many other uses. However, there are still many things to learn and explore.

This practical weekend workshop is specially devoted to integrating biochar into your projects and doing this in a truly permaculture way. We will learn different techniques of making biochar - from the simplest to more sophisticated ones - and further how to properly use biochar for many purposes, from enhancing soil quality to treating water or using biochar as fuel. We will also look at what kind of raw materials that can be used for making biochar, in order to do it in a sustainable way and blend with permaculture design.

Bogdan Popov is a Ukrainian blacksmith and permaculturist with more than 30 years of experience in both fields. He will share with you his practical field experience and methods that he has developed for making and using biochar and charcoal.

What will you learn with Bogdan

- You will know how to make and use biochar and how to implement this knowledge.
- What is biochar and brief history of it
- How to find and prepare raw material for biochar making in a sustainable way
- How to blend biochar with permaculture
- How to make biochar in the simplest way with no kiln
- How to make biochar with a simple kiln made of a 200 l barrel
- How to process ready biochar (crushing, sorting, etc.)
- How to charge biochar with life and nutrients

- How to use it in soil
- How to use it for treating water (both drinking- and wastewater)
- How to use it as fuel for forging and cooking

Program

Saturday 19. September from 10.00-17.00

- Preparing the steel drum kiln
- Selecting and preparing wood for biochar
- Production of biochar in a steel drum kiln
- Charging biochar with life and nutrients
- Using biochar as fuel for cooking and forging

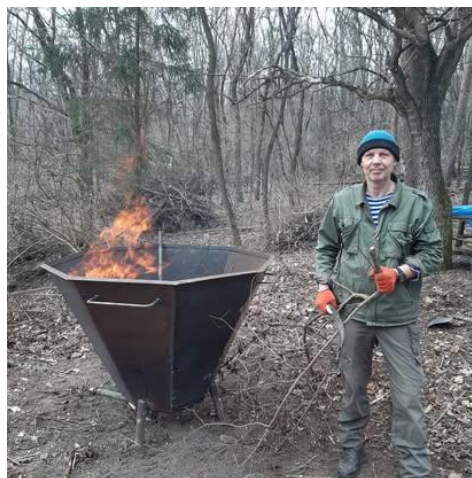
Saturday 19. September from 17.00

You are welcome to bring your own food and grill it with our own biochar and share stories around the biochar fire

Sunday 20. September from 10.00 – 16.00

- Processing prepared biochar (sieving and crushing)
- Using biochar for treating waste and drinking water
- Questions and discussions
- Wrapping up

More about Bogdan Popov



Bogdan Popov is a teacher and a practitioner who uniquely blends the disciplines of blacksmithing and ecology. He has practiced various forms of blacksmithing, including artistic forging, toolmaking, and industrial blacksmithing. Bogdan is widely known for restoring ancient techniques of archeological axes, hammers, knives and other tools, revealing their beauty and high efficiency. He is the founder of The School for traditional blacksmithing in Kyiv, that has educated several prominent Ukrainian smiths. Bogdan Popov uses a minimalistic approach to demonstrate low ecological impact and sustainability, as well as the «One World» concept of blacksmithing without borders.

Bogdan uses blacksmithing to teach ecology, finding it a powerful tool to explain things, and reconnect people with nature. His work is rooted in a quest for the role of humans in nature and an interest in ecological philosophy and native people's attitudes towards the Earth.

Bogdan holds a MSc diploma in ecology. He is also a pioneer of permaculture in Ukraine, having studied and worked closely with the permaculture founder Bill Mollison in the 90's, in Tasmania. He has also translated Mollisons books, "Introduction to permaculture" and "Introduction permaculture design" into Ukranian and Russian.

Bogdan is known for creating and running a leading Ukrainian ecological education centre – Ecostation "Hlyboky Balyky", which is an important hub for studying biodiversity, as well as demonstrating practical sustainable approaches. In 2024 he organized an International conference about biochar at the university of Kiev.



The poster is for a conference titled "BIOCHAR FOR THE GREEN RECOVERY OF UKRAINE". It is an "International scientific and practical conference" held on "May 2-3, 2024, Kyiv, Ukraine" at the "National University of Life and Environmental Sciences". A circular inset image shows a pile of dark, granular biochar. A bulleted list of topics includes soil reclamation, agricultural use, carbon sequestration, forestry applications, water treatment, energy production, waste management, and arts and crafts. Registration details are provided at the bottom.

May 2-3, 2024, Kyiv, Ukraine
National University of Life and Environmental Sciences

BIOCHAR FOR THE GREEN RECOVERY OF UKRAINE

International scientific and practical conference

- Soil reclamation in war-affected territories.
- Agricultural use of biochar.
- Carbon sequestration and climate strategies.
- Application in forestry.
- Sewage and drinking water treatment.
- Use for energy supply & production.
- Waste management.
- Arts and crafts.

Conference registration & details on the website: biochar-ukraine.creation.camp



About Jordens Gleder

Jordens Gleder is a small company run by Laila Nordbø Jenssen and Petter Deinboll Jenssen that operates the activity at Nordenga ecological course farm in Lunner. Cookery courses based on our farm produce is a main activity, but also other type of courses, connected to permaculture, regenerative- or organic farming.

Laila Nordbø Jenssen, holds an MSc in hydrology. She has a genuine interest for a better environment and has dug into the newest findings in organic and regenerative agriculture. (Soil food web: <https://soilfoodweb.com>). She has a holistic view on circularity; from water and waste to food and emotions.

Petter Deinboll Jenssen is a former professor. He has been a pioneer in recycling systems for wastewater and waste and is combining this background with learning agriculture practices. He is still active in his field and cooperates with colleagues at Norwegian University of Life Sciences (NMBU) on projects regarding circular systems for wastewater treatment.

Accommodation

For those who need accommodation you have the options of camping on the farm or stay at a hotel in Hadeland. When camping you will have access to toilet facilities, but not to a shower. You will be using a urine diverting dry toilet that was a model for toilets in buildings that had temporarily lost their water due to the war in Ukraine.

You can bring your own tent or sleep in one of our lavos. You have to bring your own sleeping bag and sleeping mattress. A sleeping mattress is also recommended if you sleep in a camping bed. Please inform about accommodation when you sign up for the course.

Prices per person:

In your own tent NOK 50

In a 2 person lavo NOK 100 (limited number)

In a lavo with a camping bed NOK 150 (limited number)

You can also rent a whole Lavvo NOK 250 (sleeps up to 4 people)

Hotels and in house accommodation

- Braastad gaard NOK 800 per person (Vigdis Braastad 957 67 118) 5 min by car from Nordenga
- Sanner hotell (613 33 00) 15 min by car from Nordenga
- Hotell Hadeland (48 12 54 81) 15 min by car from Nordenga
- Granavollen hotell (481 25 481) 15 min by car from Nordenga
- Lygnasæter hotell (613 28 613) 20 min by car from Nordenga

Veibekrivelse

Med tog fra Oslo S og Gjøvik til Lunner stasjon. Det går et tog i timen. Det er 2 km fra Lunner stasjon til Råstadbakka 72, en spasertur på ca. 30 min, men vi kan og være behjelpelig med å hente om vi får beskjed i god tid og helst ved påmelding.

Med bil tar det ca. 50 min fra Sinsenkryssset til Nordenga og 55 min fra Gjøvik. Fra Oslo følger du RV 4 nordover til Roa. **NB! Ta av der motorveien starter!** Kjør gjennom rundkjøringen over motorveien og ta andre avkjøring mot Hønefoss (RV16). Ta til høyre i neste rundkjøring og kjør nordover parallelt med motorveien. Ta til første til høyre etter Felleskjøpet mot Flågen gjennom undergang under motorveien. Etter 300m ta til høyre mot Stubne. Du er da i Råstadbakka. Kjør ca. 700m og ta skarpt til venstre gjennom en brun port etter støttemuren og du er på Nordenga. NB! Noen GPS typer vil ta deg en lenger vei fra Roa. Følg beskrivelsen over.

Fra Hønefoss og Gjøvik: Kjør til Roa og følg kart (nedenfor) og beskrivelsen over.

