

INTRODUCTORY WORKSHOP: MICRO-HYDRO POWER SYSTEMS

SATURDAY, OCTOBER 23RD 9AM – 6PM
RINER VOLUNTEER FIRE DEPARTMENT
3595 Riner Rd, Riner, VA 24149



Please join us for an introductory workshop exploring micro-hydro systems and applications for energy generation. Participants will learn the principles and applications of hydro-electric water pumping. Learn more about these systems and some key considerations for their use. The session will begin with presentations in the morning through lunch, followed by an optional site visit in the afternoon to a field site approximately 6 miles away for in-person site assessment work. Please note, rugged terrain and difficult access to field site.

Afternoon Site Visit Requires High Clearance 4WD Vehicle to Ford Stream; Carpooling with Workshop Hosts May Be Needed for Last Leg of Travel for Access to Site

Topics

- *Micro-hydro Site Assessment*
- *Safety Procedures*
- *Understanding Water Hydraulics*
- *Hydroelectric System Components*
- *Reaction & Impulse Hydro Turbines*
- *Maintenance Considerations*
- *And More!*

**SPACE LIMITED &
PRE-REGISTRATION REQUIRED**

**\$40 REGISTRATION FEE
INCLUDES BOX LUNCH**

Featured Workshop Trainer:

[Ken Gardner, SEI](#) Mr. Gardner conducts training sessions for [Solar Energy International \(SEI\)](#) as part of their industry-leading renewable energy technical training program. His company, Gardner Engineering Alternative Energy Services, based in Utah, designs and installs solar-, hydro-, and wind-electric systems.

Additional Speakers:

[Thomas Miller](#), Host & Landowner, AP Environmental Science, Blacksburg High School
[John Ignosh](#), Biological Systems Eng. Extension/VT

Morning will be classroom session held at engine bay at fire hall. Afternoon consists of optional field visit to potential micro-hydro site, road access requires 4WD and high clearance vehicles, then approximately ½ mile of roundtrip hiking, with rough terrain. Final logistics will be confirmed during the morning session.

PLEASE REGISTER FOR THIS WORKSHOP AT:

<https://tinyurl.com/VCEmicrohydro>

Workshop Made Possible By:



**SOLAR ENERGY
INTERNATIONAL**



Virginia Department of
Mines Minerals and Energy

Virginia Cooperative Extension

Virginia Tech • Virginia State University

www.ext.vt.edu

If you are a person with a disability and desire any assistive devices, services or other accommodations to participate in this activity, please contact John Ignosh, at 540-432-6029/(TDD 800-828-1120) during business hours of 8 a.m. and 5 p.m. to discuss accommodations 5 days prior to the event.