



ONE DAY / TWO PROFESSIONAL TRAININGS
Using the SolarLogic SLASH-D and SLIC Controller

- ❖ 9 am to noon **Renewable Energy Combisystem Design**
- ❖ 1 pm to 6 pm **SLIC (SolarLogic Integrated Controller) Installer Training**

*NABCEP and NATE accredited SolarLogic trainings in conjunction with
COSEIA's Solar Power Colorado 2015 Conference*

Monday, February 23, 2015
Omni Hotel and Conference Center
Broomfield, Colorado (Denver area)

PLEASE BRING A LAPTOP

This is a pre-conference training prior to Solar Power Colorado, the Colorado Solar Energy Industry Associations 2015 Conference. The COSEIA Conference begins with a Kickoff Celebration immediately following the training. The registration form can be downloaded from the SolarLogic website: www.solarlogicllc.com.

About the SolarLogic Technology

The SLIC (SolarLogic Integrated Controller) is an easy to install and web accessible controller for multi-source, multi-load hydronic heating systems. Typically a multi-source heating system is one that has renewable energy plus a backup. Renewable energy can include any of the following: solar thermal collectors, geothermal heat pumps, wood/biomass boilers, masonry stoves, wood stoves, fireplaces and waste heat recaptured from a generator or large appliance. Heating loads include domestic hot water, space heating (radiant floors and/or radiators), spas, pools, ice melts, pre-heat for the boiler and more.

The SLIC replaces all other heating controls in the mechanical room, including power relays and logic, and provides a host of additional capabilities never before available to the installer and homeowner. On the job site, the SLIC is installed with home-run wiring, requires no on-site programming, and boots up running the site-specific heating system automatically.

The SLASH-D (SolarLogic Assisted Solar Heating Design) is a website that designs almost any renewable hydronic combisystem system for the installer/contractor with minimal inputs. Its calculations include energy analysis, homeowner preferences, and actual, site-specific weather data. Its outputs include a recommended solar panel configuration, a plumbing diagram, tank sizes and a parts list. The system



configuration generated by the SLASH-D is stored in a software file that is used by the associated system control product, the SLIC.

SolarLogic has received three first place awards (in every category we have entered) from the Radiant Professionals' Alliance for our unique approach to designing and controlling renewable energy combi-systems. This integration of automated modular design and software-based controls provides much greater functionality than any other solution while being substantially easier to specify, install, and maintain.

Training Description:

This is an 8-hour product training divided into two parts: Design (3 hours) and Control (5 hours). A total of 8 NABCEP and 8 NATE Continuing Education Credits are available. Plumbers, hydronics professionals, engineers, general contractors, architects, building professionals, and end-users are encouraged to attend. Installers of the SolarLogic Integrated Controller (SLIC) are required to take the installer training before purchasing SolarLogic equipment.

The trainings consist of lecture, discussion, and hands-on sessions and will include:

- A review of the plumbing and control principles underlying the products;
- Real-time, online exercises of designing a solar home heating combisystem on the SLASH-D website;
- Exercises of logging-in via the internet to view and analyze installed systems controlled by SLICs across the country. Adjustments and troubleshooting will be performed via the internet on the SolarLogic lab.
- SLIC installation guidelines and best practices for plumbing multi-load multi-source heating systems
- Working with logged data: viewing and analyzing graphed data

Instructor Information:

Dr. Fred Milder is the CEO and co-founder of SolarLogic, a solar thermal technology company dedicated to simplifying the design, installation, control and monitoring of solar thermal and renewable energy space heating systems. Prior to SolarLogic, Fred founded two medical technology companies. Fred holds a B.A. from the Massachusetts Institute of Technology and a Ph.D. in Physics from the University of Michigan. Dr. Milder holds over 20 patents as an inventor and he lives with his family in a beautifully designed off-grid home in Galisteo, New Mexico.

Bristol Stickney, BSME, MM1, MM4, is the Chief Technical Officer and co-founder of SolarLogic. Mr. Stickney has been involved with solar thermal systems for 35 years and is responsible for all of the systems designs currently installed by SolarLogic and its affiliates. It is Mr. Stickney's knowledge, expertise and experience that have provided the theoretical and practical bases for the SLASH-D and the SLIC. Mr. Stickney is a published author, designer, instructor, researcher, patented inventor and



renowned expert in solar heating. You can see his articles in Solar Pro, Home Power, ASHRAE Journal and Plumbing Engineer or on our website, www.solarlogicllc.com.

Claudia Pavel, BA is the Director of Sales and Marketing for SolarLogic LLC and is a pioneering marketing and sales professional in the solar PV and solar thermal fields. Ms. Pavel has long experience presenting and instructing on renewable energy technology. She has successfully increased both professional and consumer understanding and acceptance of the role of renewables in their homes, offices and daily lives.

WHAT: Design and Control of Renewable Energy Heating Systems:
Using the SolarLogic SLASH-D and SLIC Controller (*in two parts*)

WHEN: Monday, February 23rd, 2015
9 am to noon: Renewable Energy Combisystem Design
1 pm to 6 pm: SLIC (SolarLogic Integrated Controller) Installer Training

WHERE: Omni Hotel and Conference Center
500 Interlocken Blvd
Broomfield, CO 80021
(303) 438-6600

COST: \$60 for Design Training and \$100 for Control Training
Additional registrants from the same company pay half price
Payable by Paypal at www.solarlogicllc.com, or check to SolarLogic LLC.

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