



Thursday, January 13th, 7 pm, Clayton Handleman:  
*"Our Renewable Energy Future"*

People, even climate-change non-sceptics, often ask "Will there be enough renewable energy to really make a difference? Can renewable energy really provide all of the country's electrical needs? If so, by when? And how?"

Our January Forum speaker is a long-time BASEA member and board member who will help us answer these questions: Clayton Hadleman of Heliotronics will give an over-view on the future and importance of renewable energy. His presentation will give BASEA members and friends, as well as those less familiar with the subject of renewable energy, the tools to communicate with others on this subject, and become educators themselves.

In a presentation that is inspiring, fun, thought provoking - and a little bit scary - Clayton will provide answers that many will find surprising. Liberal use of graphics and visual aids will help put into perspective the big energy picture in this country and to a large degree throughout the developed and developing world. A compelling case will be made that it is likely that we will achieve 20% renewables in about 10 years but that there are barriers to getting significantly beyond that. Those barriers will be identified as will be some of the most promising solutions.

This talk originated as part of a one day teacher training about renewable energy in the classroom. It has been designed to put renewable energy into perspective so that the teachers can be conversant on the impact that renewable energy will have on their students' futures and the opportunities that it offers. From interested citizens to government officials, from architects to renewable energy professionals, this talk will provide new insights into how and why renewable energy is growing at a rate that has surprised even the optimists, and the ramifications of this change in our world.

Location: First Parish in Cambridge Unitarian Universalist  
3 Church Street, Harvard Square  
Time: Doors open at 7:00 p.m.; Presentation begins at 7:30 p.m

#### About Mr. Handleman:

In 1994 Mr. Handleman left MIT Lincoln Laboratory and the world of defense R & D to develop the SunSine™ module scale inverter for Ascension Technology in Waltham MA. Inspired by their pioneering work in bringing solar to schools, Mr. Handleman left to begin his own business to focus exclusively on expanding renewable energy education, founding Heliotronics, Inc., now a leading provider of educational data acquisition and display systems.

Heliotronics' nationwide network includes PV data monitoring systems at the Massachusetts State House, the Harvard University Science Center, the MIT Student Center, the first LEED Platinum Museum, a growing number of lobbies at Dupont, and as the heart of state renewable energy education programs in Missouri, Rhode Island, Connecticut, New Jersey and New York. Mr. Handleman has developed curriculum in collaboration with NYSERDA, and has trained teachers and teacher trainers to apply real data to the classroom learning process, teaching basic science, math and technology within the context of renewable energy. He is a frequently speaker at national renewable energy conferences.

Mr. Handleman received his B.A. in Physics at Washington University in 1984 and his M.S. in Physics from Purdue University in 1986. Prior to working in solar energy he worked 7 years with MIT Lincoln Laboratories as a data acquisition specialist. Mr. Handleman has served on the boards of numerous renewable energy groups such as BASEA, Solar Boston, and the Solar Energy Business Association of New England. An enthusiastic supporter of hands on science education, Mr. Handleman also coaches a FIRST Lego League team that this year went to the state championship based in part on their project to use solar ovens to sterilize syringes in the developing world.

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