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Do you know any teachers? Forward this to make sure that they are aware of these opportunities for their students.

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Passing the Basket

Most of us have been handed a

collection basket, and we responded by adding our few dollars to the cache.

This is the same-- no matter how big or small a donation, your financial support means a lot (just click on the basket).

And thank you!

You are receiving this newsletter because of your association with Mary Essary, The Foresight Project, or one of our programs. If you do not want to receive further updates, go to [SafeUnsubscribe](#) below.

Student GreenFilm Channel Now Open:**Take a Look! --**

The student created videos shown at the August 2009 GreenFilm Festival are (finally) up for viewing online. They are Great: Informative, Funny, Upbeat, Wistful . . .

YouTube.com/TheForesightProject.

If you're discouraged by all those expensive Big Oil ads, reassuring you that they're ready with more energy resources, these student videos will revive you.

**Video Playlists**

TheForesightProject's Channel

Make a comment. Decide on your favorites. Forward them to friends - and Pass them on to a student, a teacher, a school administrator: the 2010 contest details will be announced soon.

CleanTech Award Update: A New Climate Science Award

What are the CleanTech Awards? The awards began in 2007; they are given to the best projects investigating sustainable energy, energy efficiency or related issues, at the middle and high school regional and state [Massachusetts Science and Technology Fairs](#).

Science today is an exciting land of opportunities. It is a back-to-basics new Age of Invention: with energy now a valued resource we can look at any design and say "what if? . . ." The CleanTech awards are given to motivate students, to recognize what is best about their curiosity, imagination, and exploration.

At the same time, we are entering new regions in science, so this year we added a climate science award: "*Beyond Rocket Science: Climate Science!*"

Climate science is a new frontier. It forces us to approach the world in a new way: not looking at parts in isolation, but at a whole system. With all the feedback loops and resulting discontinuities (think of avalanches or straws that break camels' backs). It is physics and chemistry (and biology), but the parts that we have previously set aside: When air flow is turbulent. When sugar dissolves in water, and then we can't add more. When water becomes ice. When species become extinct.



The mathematics itself is new - younger than most people reading this. It can be simple on paper, and still have the most peculiar outcomes. It's incredibly cool -- and incredibly important.

We are here at the start of the 21st century, most of us struggling to understand this new dynamic view of our world. Climate and systems science are waiting for young minds with a fresh outlook, just as at the beginning of the 20th century, physics waited for Dirac and Einstein and Heisenberg.

That's why we are separating this topic out for its own Award. I can't wait to see what happens. . . [For more.](#)

P.S. Why Beyond Rocket Science?

Because understanding how our planet works is a leap forward in complexity from traditional science. Because (at the same time, ironically) earth science is undervalued and being downgraded in our schools. And because rocket science made it all possible, beginning with a Geiger counter that James Van Allen installed in 1958 on the first successful U.S. rocket launch, Explorer I.

The NASA space programs are giving us a wealth of new data, collected by those first rockets, by satellites monitoring our planet, by probes to other planets and to our own sun. It is NASA scientists who pioneered in unraveling the story of the world that we live in, how lucky we are, and how fast things can change. (And you thought it was the walk on the moon that was a step into the future!)



Mary Essary

Founder, The Foresight Project