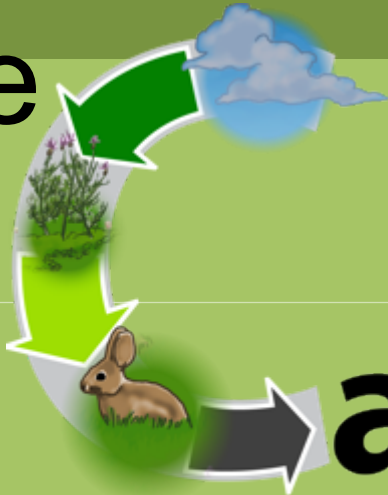


# The



A newsletter for members  
of the Carbon TIME  
environmental literacy  
project.

# arbon TIMEs

February 2013

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## Andy's Message

We're really excited about the revisions we are making in the Human Energy Systems unit! We think it will provide great opportunities for students to connect what they have learned about matter and energy in living systems with global carbon cycling and energy flow and in turn with the consequences of their own lifestyles. We hope you will check out the interesting activities and try it out with your students.

We are also starting the process of identifying teachers who would like to participate in the Carbon TIME project next year. We will have more teachers (48 in all) but less intense data collection. We hope to have a mix of "veterans" who have taught Carbon TIME units before and teachers who are trying them for the first time. Read more about it on the next page!

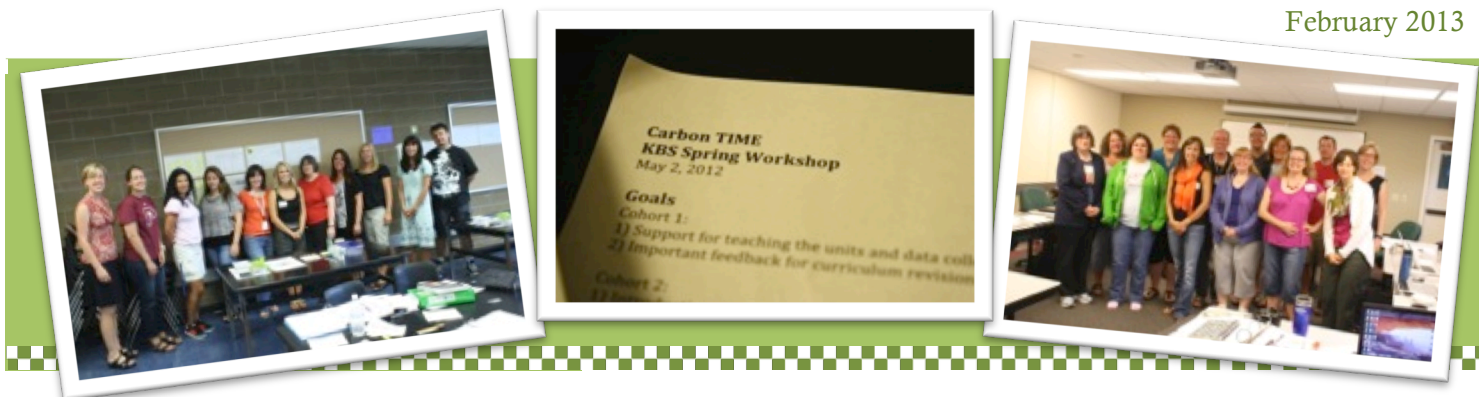
## Upcoming Important Dates

### Post Tests

Start planning now for an appropriate time in your school schedule to give the Carbon TIME over all post tests. These are very important to us!

### Sign-up Deadline

If you are interested in continuing with the Carbon TIME project for the 3<sup>rd</sup> cohort (2013-2014), make sure to let Staci know by April 1, 2013.



# Recruitment TIME

## Science Teachers Wanted for the 2013-2014 Carbon TIME Cohort



We are heading into the fourth year of the Carbon TIME project and we are looking for teachers to help us pilot our curriculum during the school year 2013-2014. Participating teachers will join us in Spring 2013

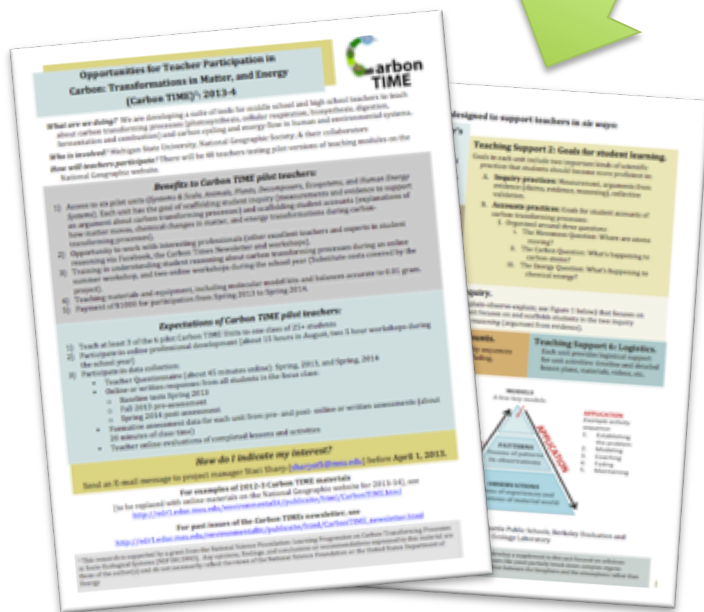
and continue until Spring 2014.

Teachers in the 13-14 cohort will have slightly different experience than members of previous cohorts. Thanks to all of the very hard work our 11-12 and 12-13 cohorts have put in, the curriculum materials are in better shape than they have ever been and we're looking forward to a third round of piloting and revisions. The upcoming cohort will be given a stipend of \$1,000, fifteen hours of online professional development, and the materials needed to teach. They will be asked to teach 3 of the 6 units and provide feedback online.

If you know any teachers who might enjoy joining

the next cohort, please pass along our Recruitment Flyer: [edr1.educ.msu.edu/environmentallit/publicsite/html/CarbonTIME314.html](http://edr1.educ.msu.edu/environmentallit/publicsite/html/CarbonTIME314.html).

Interested parties should email Staci ([sharpst5@msu.edu](mailto:sharpst5@msu.edu)) by April 1.



## Are you planning to teach Ecosystems or Human Energy Systems?

If so, we would love to know! Both units are online and ready to go. We are very interested in hearing how these units go in your classroom. There have been many changes since the first drafts were out last year. If you have a plan to teach either of these units, please email Jenny ([dauerjen@msu.edu](mailto:dauerjen@msu.edu)) and she'll be sure to let you know what changes to look out for in the units.

## Reminders



1. Revisions: We are currently working on our last round of revisions for this cohort. If you would like your wisdom, feedback, comments, and concerns to be included in the materials that will be piloted in the 13-14 cohort, now is the time to send in your feedback.
2. Systems & Scale: We have quite a few teachers who have done Systems & Scale without filling out the teacher feedback forms. If you are one of these teachers, please get these feedback forms to Staci as soon as possible.
3. Recruitment: We need 48 fabulous teachers from across the country for our next cohort, and you are our best connections to these folks!



# Human Energy Systems

We would like to highlight some new changes in the Human Energy Systems unit for those of you considering teaching this unit. The unit is new and improved and we are excited to hear how it goes in your classrooms. Here are some highlights of recent changes:



### New Images

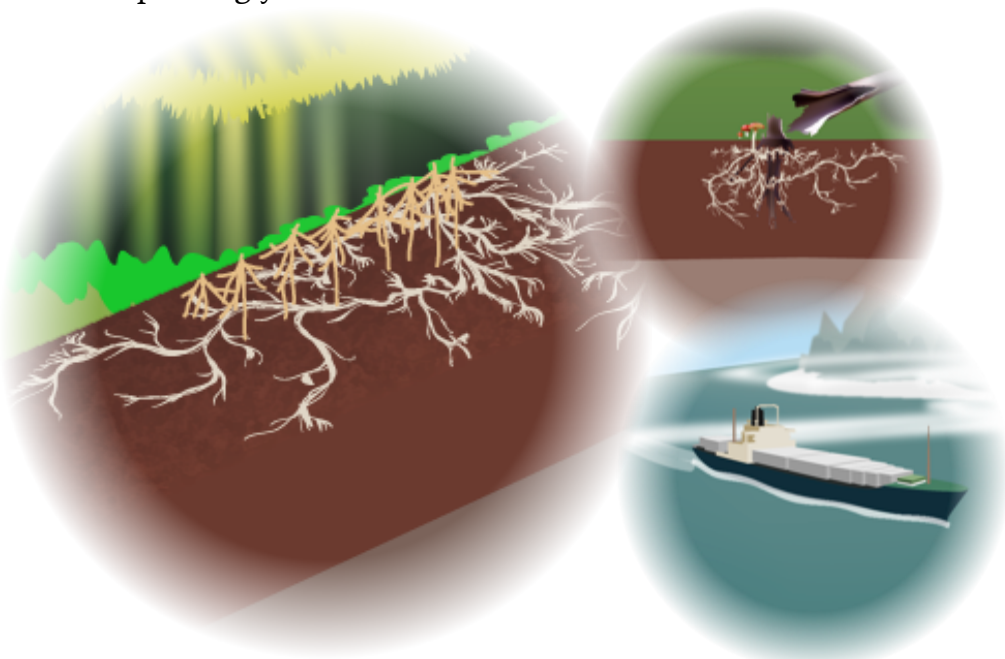
Our graphic designer, Craig, has been working with the unit writers to develop images that help teachers facilitate discussion about carbon and energy at a large scale. These images are woven throughout the new unit in the PPTs, worksheets, and teacher's guide.

### Videotaping

We'd like you to videotape the conversation that takes place after the lifestyles activity (Lesson 3, Activity 3). This activity is designed to help students think about how their own choices as individual consumers and also global factors and contexts contribute to carbon emissions and climate change. It also encourages students to consider that mitigation strategies might be a combination of choice as an individual and change on a global scale.

### Global Warming and Climate Change

We added an activity that makes the connection between carbon emissions and global warming/climate change more explicit. We are excited to hear how this activity goes in your classroom, particularly how the students respond to the content and what kinds of questions come up during your classroom discussions.



# Spotlight on the graduate student



Meet Joshua Rosenberg, a newcomer to the Carbon TIME crew. Josh is joining us at MSU via North Carolina, where he was a high school biology teacher at a public school for seven years in Shelby. Josh returned to graduate school to work on a PhD in the Educational Psychology and Educational Technology (EPET) program—but was pulled over to Curriculum, Instruction, and Teacher Education (CITE) where Carbon TIME lives by a classmate who reminded him of how exciting science education can be!

Joshua has started his work with Carbon TIME exploring a learning progression for sustainability (and we're all excited to hear how that turns out!) In his spare time, Joshua is an avid road biker.

Welcome, Josh! We're happy to have you join us.

## Carbon TIME important links

Testing Website and Dashboard:

<http://ibis-live.nrel.colostate.edu/MSP/home.php>

- Give feedback
- Order Materials
- Shipping information

Teaching Materials Website:

<http://edr1.educ.msu.edu/environmentallit/publicsite/html/CarbonTIME.html>

Facebook: Carbon TIME group

Twitter: @CarbonTIME

Archived Newsletters:

[http://edr1.educ.msu.edu/environmentallit/publicsite/html/CarbonTIME\\_newsletter.html](http://edr1.educ.msu.edu/environmentallit/publicsite/html/CarbonTIME_newsletter.html)

Recruitment Flyer:

<http://edr1.educ.msu.edu/environmentallit/publicsite/html/CarbonTIME1314.html>

## Carbon Comics



Teachers, if this happens to any of you while preparing to teach a Carbon TIME unit, please let Staci know immediately, and make sure to take note of it in the feedback forms.