

THREE RIVERS SCHOOL

243 Academy Road Pembroke, NH 03275 Telephone 485-9539
Fax 485-1829

DEBORAH L. BULKLEY
Principal

JONATHAN MARSTON
Assistant Principal

DOROTHY O'ROURKE
Special Education Coordinator

KELLY REYNOLDS
Guidance Counselor

March 5, 2012

Dear NSF Review Panel,

As a NASA Endeavor Fellow, cohort 3, I am taking my third and fourth courses in SPRINTT and Marine Science: Tracking Live marine Animals. I will take my final course on Leadership Distinction when offered by NASA Endeavor this summer to earn a Teaching Certificate in STEM for K-12 with Leadership Distinction

This is an enormous opportunity to increase STEM in my school while teaching about climate change to create 21st Century citizens. Currently, I am using the SPRINTT Curriculum with 7th grade students to enrich their Science Fair projects. The Climate Science Course brings authentic data into the classroom in a student friendly manner that encourages observing and analyzing data. The geography, history, and language arts components of the Climate Inquiry and Research of CIRCLE employed by this program facilitate an interdisciplinary approach to study both Earth's Polar and Tropical regions. Utilizing this program allows students to understand the important work being done globally studying climate change entailing all areas of science as well as learning how to observe, interpret, and analyze the resulting data in a meaningful way.

In this tough economy it is especially important to give students the strong literacy and job skills available through this program. Today's technologically savvy society demands compelling interactive instruction, which would be fulfilled via the web casts with both indigenous peoples and scientists from Earth's Polar and Tropical regions. Sharing their work in the Student Symposium Webcasts enables students to work collaboratively with other schools, which employing Engineering and Math Modules as they learn about their natural world. The design of the CIRCLE program allows for differentiation to meet the needs of all learners at their personal levels. It gives both advanced and lower level students challenging work on the same science concepts in a similar, meaningful way while encouraging critical thinking and processing skills. Knowing their personal work will be shared with other schools and backed by NASA Endeavor and the US Satellite Laboratory will motivate students to attend school and do their best work.

Three Rivers School would love to embrace the tremendous advantages CIRCLE offers our students to meet the national and New Hampshire State Curriculum Standards for Science. This course offers students cutting-edge STEM in context that connects to their individual and collective futures to educate informed and competent stewards for our planet.

Sincerely,


Raya-Jean Zaczek



Deborah L. Bulkley
Principal



Climate Science Course Offer

Secondary (7-8 or 9-12)

No fee. Schools/Districts would each receive \$5,000 – up to \$15,000

Proposed NSF Education Program (CIRCLE) seeks 100 U.S. Schools and Districts.

Run a Climate Course

CIRCLE, an expansion to NSF SPRINTT features global, compelling, interactive, online investigations of Earth's Polar AND Tropical Regions. The ½ - year course offers you a NEW, potential science elective for meeting graduation requirements.

If funded, it would be available for schools and districts to run in 2013-2014 and include:

- Award-winning classroom activities and expanded student investigations
- Free Graduate Credit (3) / CEU ...or Teacher stipends
- LIVE, interactive professional development plus mentoring from NASA Endeavor Fellows
- Synthesized, interactive data sets for ease of use
- Perspectives and observations from people whose lives are affected by a changing climate

Special Components:

- **HUNDREDS of LIVE, interactive webcast opportunities with field scientists, engineers, indigenous peoples from around the world**
- Student Symposium Webcasts, sharing their creative work with others nationally/internationally
- Online Student Research papers, optional
- Transfer **Take One!** and CIRCLE toward earning **National Board Certification**
- Math modules [Common Core Standards] (i.e., Grade 8, Algebra 1, Geometry, Algebra 2)
- Engineering modules (MS/HS)
- Collaborations using data between schools (e.g., <http://www.us-satellite.net/greenland>)

What Do I Do?

1. Share the opportunity with your District or School
2. Submit a ¾ - 1 page Letter of Intent on school letterhead signed by principal, superintendent or curriculum administrator **There is no commitment**. School can be replaced, if necessary. The letter would secure your spot and no-fee materials for your school(s) or entire district.
3. Email or FAX letter to:
nasa_endeavor@us-satellite.net *or*
FAX to: (888) 365-3414.
DEADLINE March 6th

For More Information:

Email: nasa_endeavor@us-satellite.net

What Should the Letter Say?

Address letter to: NSF Review Panel

Talking points may include:

- Your experience with SPRINTT, Endeavor, U.S. Satellite projects, good science, etc.
- Science is taught in a meaningful way, in context of climate change or science
- Value of scientists interacting LIVE with students
- Interdisciplinary, authentic nature of Earth, life, physical, chemistry, etc.
- Learn math and engineering using real data
- Value of observing, analyzing data

Pending CIRCLE funding



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Endeavor
Science Teaching Certificate Project

From: "Glen Schuster" <gschuster@us-satellite.net>
To: "NASA Endeavor" <nasa_endeavor@us-satellite.net>
Sent: Tuesday, February 28, 2012 11:26:37 PM
Subject: brief postponement-Climate Change

After some back and forth, earlier today we learned from NSF that our team's proposal, CIRCLE, with the type of specific strengths it has, makes it not the right fit for NSF's Climate Change Education Partnership program. Our project is more appropriate under the Discovery Research K-12 competition for formal education.

It is with regret, since so much work has been done—which is a good thing—that we will wait to apply at the end of 2012. The good news is that it allows for all of the versatility of the initial "global" approach to climate change education, built with all the bells and whistles. We will finish the proposal early. I assure you the work done so far has been strong, with dedication and extensive, solid contributors.

If you have shared your letter of intent, or had done some groundwork and do not wish to wait, NASA Endeavor will sponsor NO FEE teacher and student materials and professional development, with full access to student investigations for NSF SPRINTT, in Fall 2012! As in good faith, in partnership, we are intent on getting funding for this exciting project. We welcome your thoughts, encouraged collaboration and look forward to serving you soon.

Glen

Glen Schuster, Project Director

NASA Endeavor Science Teaching Certificate Project

U.S. Satellite Laboratory

32 Elm Pl Rye, NY 10580

914.921.5920 x201

<http://www.us-satellite.net/nasa/endeavor>