



# ROSTEA *Bulletin*

The Official Journal of the Rockland, Orange, Sullivan, Technology Education Association

## Brian Corey, Regional Teacher of the Year and Nanuet MS to host March 13th meeting

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February 2013

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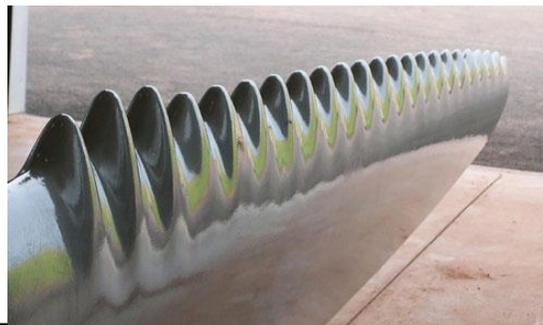
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### Schedule of Meetings

1. Suffern MS Tuesday, ~~Oct. 16, 6pm~~
2. ~~Intrepid Museum Saturday, Nov. 10, 9am~~  
~~Cancelled, Museum closed storm damage~~
3. ~~Minisink Valley MS, Wednesday, Nov. 14,~~  
~~5pm~~
4. ~~Clarkstown South HS, Thurs., Jan. 24, 5pm~~
5. ~~NYSTEEA conference Malta Feb. 7, 8~~
6. Nanuet MS Wed, March 13<sup>th</sup> 5pm
7. Industrial Visit TBA Tuesday April 16th
8. Banquet (tba) Th May 16<sup>th</sup>



## PRESIDENT'S MESSAGE:

Hello members and some non-members. Here are some questions and a message. **Where does your program fit in the next wave of educational change?** Since my main interest and excitement revolve around building projects with my hands it is extremely difficult for me to read through documents like the [common core standards](#). However, we must have our programs align with these documents and we must show how our subject helps our students achieve these standards. HANDS ON PROJECTS, as all the other subjects are starting to realize, make learning relevant and motivational for students. Since we are the experts in this area we can lead educational reform instead of being simply an elective or after thought. We need to make it obvious that standards are met or exceeded.

**How well does your program prepare students for college or the job market 4-8 years from now?** As was brought up at the NYSTEEA conference, many of the traditional ideas of what a manufacturing job is has completely changed in the last 10 years. America's manufacturing sector needs people better educated in math and communications skills. Traditional manufacturing jobs which were low skilled and low paying are now being done by robots. Programming and repairing robotic systems, logistics of materials and shipping, and communicating around the world are what some factory workers do today and at higher wages. Despite what the news says or sounds like, America is still the leader in manufacturing and is hurting for properly trained workers. Evaluate your projects and make them meet the needs of industry by providing opportunities to use math, science and communication skills.

**What are ways we can educate ourselves on current technology enough to entice our students into further study?** If you are like me than you sometimes procrastinate, or sometimes don't prioritize well. I often have good intentions of reading more articles, working on new project ideas, writing grants, or talking with administrators about technology, but somehow I let the time sneak away. What will work best for all of us is team work. Together we are stronger and the load is easier to lift. If you find a great project idea, informative article, know of or would like to start a competition, share it with the members. Go to Rostea meetings, go to the NYSTEEA conference (next year), start finding out what is going on currently in American manufacturing and share your experience.

**The Message:** The time really is now to bring our programs up to speed and then start advertising them to the community, administrators, and politicians. Our subject is as relevant and important as we make it. There is only one way for the public, administrators and politicians to know what we are doing and that is by planning and building a strong unified program were we all meet the standards and beyond. We must prove that our students are making progress in school and especially when they get out. We need to be visible which means we should show off our projects through competitions or what ever means available. Don't think for a nanosecond that anyone cares how long our subject has been around or you for that matter.  
Ray Sussmann

**R O S T E A Bulletin**  
**NYSTEA Region #33**  
**The Official Publication of**  
**The Rockland, Orange, Sullivan Technology**  
**Education Association**

Serving the technology community since 1983

**2012-2013 Officers**

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Wy Knot You,	Vice President	
Brian Corey,	Treasurer	<a href="mailto:Bcorey@ccsd.edu">Bcorey@ccsd.edu</a>
Alan Horowitz,	Historian,	<a href="mailto:ahorowitz@aol.com">ahorowitz@aol.com</a>
Ken U. Wright	Secretary	

### Call For Assistance

Maybe you did not notice but there are several openings on our executive board that need to be filled. There are many jobs or tasks that need to be done to run our organization that, taken individually, can be done in a few hours or less each month. For example, one person could set up our industrial visit. One person can set up the banquet. One person can call for a special presenter at a meeting. One person could put together our bulletin. Even hosting meetings is a big help. Even if you think you don't have anything to share, you could simply offer your site and have a guest speaker. If you could find some time to chip in, I think our meetings will be more interesting and useful to our members. This month would be a great time to consider helping out next year. My goal this year was to get things planned early so while school is in session, most of the work would be done. I would like to continue this trend so if you sign up now we could start talking about next year. Please consider what you can contribute to **YOUR** association.

**We will vote on officers at our March meeting so please attend ready to sign up or just e-mail me with your intentions.**



Directions to Nanuet MS. March 13th, 5pm

A. MacArthur Barr Middle School  
143 Church Street  
Nanuet, NY  
10954

From the North

Take I-87 South NYS Thruway to exit 14 Spring Valley/Nanuet  
Turn Left onto West Rt 59  
Turn Right onto Smith Street (if you are on east 59 and reach rose rd you've gone too far)  
Smith st Becomes Church, look for School on left.

## Nysteea Conference Wrap up

The conference was held at Hudson Valley Community College Tech center. The location itself is a renewable energy demonstration center with solar, wind and geothermal installations all about the area. The vendors included current technology such as robotics, 3d printers, laser cutters to name a few. Attendees were enthusiastic and ready to participate.

### *Zero Energy House*

Alfred State zero energy house was featured in one of the presentations. This house has all the latest renewable energy features in which the house creates as well as consumes energy resulting in a net zero energy consumption. Associate Professor Jeff Stevens showed us how to get onto their website which allows you access to all the systems of the house. An elaborate array of sensors let you and your class monitor in real time how the house is performing as well as the historical data. Alfred state also offers teachers an opportunity to work on energy systems free of charge and educate you on some real applications. I personally benefited from the meeting by receiving some very generous freebies and plan on working with my students on the house data. Check it out by following this [link](#).



### *Math and Engineering*

I also attended an interesting presentation on math and technology collaboration. Dr. Robert Rogers, Professor of Mathematics at Fredonia State explained how math is applied to technology and surprisingly how technology is applied to math. His examples of current technology and their roots in math showed me for the first time that math is not worksheets of formulas but actually part of the real world. I have a power point of the presentation that you can copy if you want it.

### *Electric Car*

The hands on workshop included a great project of an electric car. Students build the motor from scratch using a simple system. The car works fantastic. Here is a link to view the [car project](#). You can go to NYSTEEA.org for other links. Ask Andy Kelvas what it is like to build.

### *Flipped Classroom*

Another workshop I attended was the "flipped Classroom"? The premise is that you create a video lesson on a specific item you normally teach in front of your class and upload it to the web. Students are taught how to view the video, using pause, taking notes and what is expected. The video is posted to a location kids can access such as YouTube, and they are given homework to watch it. In class the next day a short open notebook quiz is given to determine who watched and who did not and to check for understanding. Students then do the task in class while the teacher works with students rather than spending class time giving out the information. I know you can think of a lot of barriers to this but the instructor who uses this has found it to be highly effective, more effective than the traditional teaching methods and found huge time benefits. I was intrigued by this because I use YouTube to fix tons of stuff around my house and this will be how many things are taught to people in the near future. I also find less time for projects because of things like testing and bullying prevention. Try it for a few simple things to see how it works, it may free up some time in your classes to do more elaborate projects. I am going to try it with a few topics like Aerodynamics and Newton's Laws of Motion. If you do one send us all a link. This may be the start of a new teaching collaborative

## NYSTEEA Conference Wrap Up

### Biomimicry

There was also a workshop on using patterns from nature in design work. This is called **biomimicry** and I found it to be potentially very useful for students to understand. The presenter actually made it part of her class and came away with some great results. I will bring this information to the next meeting. Nature seems to find the most efficient means to work such as the shape of honeycombs, shape of leaves and the list goes on.

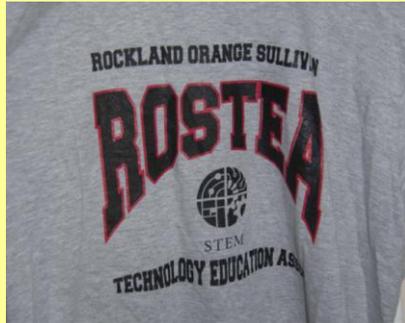


### *Dream It Do It*

Finally the key note speaker Dave Johnson was motivating in the way he explained the plight of American manufacturing. It seems from his statistics our country is still one of the top producers in the world but there is a huge shortage of properly educated workers. He is part of a group charged with spreading the word so this trend can be changed. Check out [this article](#) to get a feel about what he talked about.

### Meeting at Clarkstown South HS

It was a fun experience for all who attended the Jan. meeting. Andy Kelvas and Brian Corey hosted the event. The meeting started with a brief give and take on the new evaluation system and how it was being implemented at local schools. It really seems like everyone is under a similar system of pre-testing and post testing with various length tests. We quickly moved to our main event which was the professional screen printing set up and all made a two color two sided Rostea shirt. The 3d printer was also discussed as the meeting went on in which some of the positive and negative aspects were addressed. Thanks for the fun meeting and I'll be proud to wear my shirt.



### MEMBER HIGHLIGHTS

This will be a new feature to highlight a member, program or to highlight a submission from a member of a project. You could help by sending me a submission such as a write up of a fellow teacher, your program or project your proud of.

This months "Member Highlight" is about:

**Brian Corey our regional teacher of the year.**

Brian was recently honored at the NYSTEEA conference for his work as an outstanding Technology Education teacher at Felix Festa MS and Clarkstown South HS. Brian is an excellent teacher who responds to all students needs in a respectful and careing manner. He teaches at the high school and middle school, coaches volley ball, worked on the school play, invention convention, and magnetic levitation team. He has also been Rostea Treasurer for several years. He is also a very new dad of a beautiful baby girl. Congratulations to Brian Corey.