OUTREACH INCENTIVE GRANT FUNDING: END-OF-YEAR PROJECT REPORT

Tit	tle of Proposal:		ne "E" in a STEM outreach project: Adding engineering components	
Yo	our Name:	to the <i>Biology in a</i> Susan E. Riechert	Project Date: <u>entire grant period</u>	
So	ource _Arts & Science	Amount <u>s</u> 26,528	om other university or external sources: Title Project Assistant to Biology in a Box Project hert salary release funds used for <i>Biology in a Box</i> materials costs	
Pl	ease use this s	sheet to answer each	of the following questions about your project (1-2 pp total)	
1.	ASSESSMENT	Γ : How did this projec	et document or assess its engagement with the community?	
		not applicable as funds were for development of a new STEM unit which is now only approaching potential use in enguagement		
2.	PARTNERSH	IP/RECIPROCITY: H	ow did the university and community work together? The collaboration	
wi	ith Georgia Tec	h engineer Brian Post	worked excellently with a finished product achieved	
3.	BENEFITS: What were the benefits (University/community) of this partnership? The benefit will be State & nationwide as the following four sets of exercises under the new technology theme STEM I: Biomechanics have been developed: 1. From Skeletons to Bridges, 2. Projectile Motion, 3. Aerodynamics & Seed Dispersal, and 4. Seismic Communication. See attached file with rough draft of the unit. Prototypes of all materials & equipment required to explore these themes have been built and are being tested & modified to accommodate student use in secondary ed classroom contexts.			
4.	SHARED DECISION-MAKING: Did the community have a "voice" or role for input into this project? Aspects of the project were vetted at two workshops and by peer review in journals.			
5.	SCHOLARSHIP: Are there any examples of faculty scholarship that will be informed by this project? The theme in both powerpoint and pdf forms will be made available to the world-wide audience at the project's web-site. Additional publications in the science education literature are planned.			
	Post, B.K. & S.E. Riechert. 2009. Bridging the Gap: Connecting Biology and Engineering in the High School Curriculum. Proceedings from the American Society for Engineering Education Southeast Section Conference 2009.			
	Riechert, S.E. & B.K. Post. 2010. From skeletons to bridges & other STEM enrichment exercises for high school biology. <i>The American Biology Teacher</i> 72(1):20-22.			
6.	CONCLUSION	VS: What conclusions a	and best practices can be drawn from the partnership? It has been an	

7. **FUTURE PLANS:** What are the future plans for this partnership? We will be adding additional biomechanic topics to this STEM unit as biomimicry models attract our attention.

highly fruitful collaboration