
**STOCKTON UNIVERSITY
ANNUAL REPORT FOR
2020 INITIATIVES PROJECT**

PROJECT LEADER(S):	Dr. Susanne Moskalski
PROJECT TITLE:	Purchase of a wave flume for public engagement events
DATE:	9-11-2019
CC:	

- *The boxes below expand as needed to accommodate your notes. You may also include/submit appendices or attachments, if needed.*
- *Email a copy of this completed form to Jessica Kay, Senior Planning Analyst at: 2020@stockton.edu or Jessica.Kay@stockton.edu.*

Please provide a summary of the project and your experience.

Last year we applied for funds to purchase a demonstration wave flume from CHPT industries in Delaware. We received it just in time to debut at Atlantic City Coast Day, and since then we have used it for multiple public engagement events. The flume has been well received by the public, and they are usually open to hearing about how it works and learning about how waves work and how they move sediment.

Please attach a copy of your original proposal or list your stated objectives and expected outcomes.

Original proposal attached.

Please describe the results of your project and compare them to your original expectations. Elaborate on how well your objectives were met and how they might have changed. Note any particular obstacles that may have prevented your achieving full satisfaction on desired outcomes.

I am very pleased with how the project went, and everyone who has used the flume has expressed satisfaction with it and how the target audiences react. We were able to get the flume in time for the inaugural Coast Day last year, which was a very important objective. We had Marine Science students demonstrate the flume during Coast Day and explain waves and wave shoaling to the general public. In our surveys of event attendees, the flume was one of the most-often cited favorite attractions.

We have also used it during several other events in the past year. We took it to New Jersey Sea Grant's Ocean Fun Days in May. We had an informative display about waves, a kids activity about oysters, and we were also recruiting for Stockton and the MARS program. The flume was used in 2 learning activities, for the STEM camps Teen Tech and Tech Trek. For the Teen Tech event we used it to explain how waves transform at the coast and move sediment. We had the students measure waves in the flume, calculate some things, and try to build Lego structures that would resist wave erosion. The Tech Trek camp involved younger students, so the learning objective was changed to demonstrating wave processes.

All of the demonstrations and lesson plans used will probably be revised repeatedly, but the flume has seemed effective for different levels of learning, and definitely attracts attention in public "faire-like" environments. The only real negative about using the flume is transporting it. It is large and unwieldy, requires a large truck, and has several important parts to move, but a more efficient moving system may be developed eventually.

Please list any follow-up actions (publications, presentation venues, etc.)

We (the MARS program faculty and staff) plan to use it again for Coast Day this year, and we will likely continue to use it for other public education and outreach events as they arise.

Are you recommending the continuation of this project? If so:

- **What are the next action steps you foresee or recommend?**
- **What are the expected budget requirements going forward?**
- **Please identify the program, department, or division you should be working with to secure continuation of funding for your project.**

[Note: continuation proposals must be approved and incorporated into the appropriate budget process. This report will not constitute a request for permanent funding.]

We do intend to keep using the wave flume, as it has proven to be useful and successful in the past year. We do not need any additional funding or other assistance to continue using the wave flume.

FINANCES: Based on your proposal, please outline below how the award has been spent.		
	Amount	Notes/Comments
Beginning Budget Balance as of:	\$ 4370	
Salary Expenditures		
• Stipends	\$ 0	
• Full-time staff salaries	\$ 0	
• Full-time faculty salaries	\$ 0	
• TES salaries	\$ 0	
• Fringe Benefits	\$ 0	
Total Salary and Fringe Expenditures	\$ 0	
Non-Salary Expenditures (<i>supplies, travel, etc.</i>)		
• Flume and required parts	\$ 4550	New price discovered after submitting. Proposal!
• Delrin beads to mimic sediment	\$ 720	Additional item needed, unforeseen at time of original proposal.
•	\$	
•	\$	
•	\$	
•	\$	
Total Non-Salary Expenditures	\$ 5270	
Total Salary + Non-Salary Expenditures	\$ 5270	
Ending Budget Balance as of:	\$ 5270	

If there are remaining expenditures required to complete the project, and your project was approved for multiple fiscal years, please itemize them with expected amounts and timing for payment.

IMPORTANT: *Unused funds reverted to the general 2020 Initiative Fund at the end of the fiscal year 2019, if not approved and encumbered for project costs in the next FY.*

Item	Expected Amount	Expected Timing for Payment
Zero remaining expenditures.		
Total		