

### SHOREHAM-WADING RIVER CENTRAL SCHOOL DISTRICT

# 2021 Summer Program Summary

Presented by: Alan Meinster 8/24/2021

**DRAFT** 



#### **Offered Programs**

- Elementary At-Risk Summer Program
- High School Advanced Placement Week Program
- Secondary Science Research Program
- High School Peer Theater Summer Program
- Summer Enrichment and Remediation Program
- BNL SPARK Program
- Summer Theater Community Program
- Early Start Program
- Roundout

- Offered to rising Grade 1 through 6 students receiving Academic Intervention Services, students with 10 month IEP's, and ENL students
- Expanded this summer from two weeks to three
- Sessions each day for math and for reading support
- Provides students with a running start going into the new school year
- 150 student registrations



### **Elementary At-Risk Program**





#### High School Advanced Placement Summer Program

- Provided to incoming Advanced Placement students in most AP course offerings
- Provides an opportunity for students to strengthen foundational knowledge prior to the start of new course work
- 13 Courses Offered
- 108 registered students



### High School Advanced Placement Summer Program





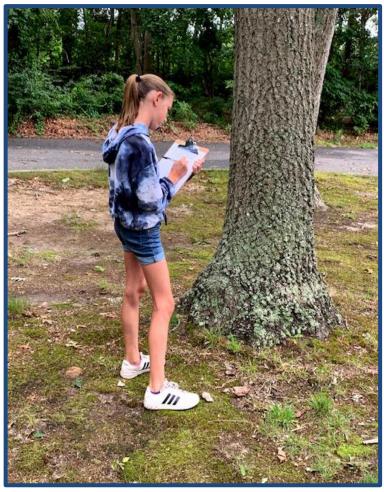
# Secondary Science Research Program

- New offering this summer
- Provided opportunity for interested rising grade 7, 8, and 9 students to experience the research process and conduct hands-on experiments employing the scientific method over an abbreviated time period
- Conducted over a four week period meeting three times per week
- Enrollment: 19 registered students



# Secondary Science Research Program







#### **High School Peer Theater Program**

- Provided an opportunity for students to learn, rehearse, and conduct a theatrical performance aligned with the structure of the regular school year peer theater program
- 19 students performed Willy Wonka and the Chocolate Factory on August 10th in front of an audience of approximately 50 community members



#### **High School Peer Theater Program**





### Summer Enrichment and Remediation Program

- This newly created program, offered to students with needs, provided opportunities for remediation in math and reading alongside enrichment experiences in art, music, and physical education
- Limited the typical "summer slide" experienced most acutely by students in this population
- Enrollment: 30 registered students



# Summer Enrichment and Remediation Program





#### **BNL SPARK Program**

- Offered virtually this summer, students from our high school science research program receive the opportunity to conduct research projects using BNL facilities and equipment
- Projects conducted use the synchrotron and spectrometry lab at BNL for conducting experiments
- Five of our science research students were enrolled in the program this summer



these samples

#### **BNL SPARK Program**

Collaborative work creating group projects

Discussion

Further research is required to ascertain the different affects these

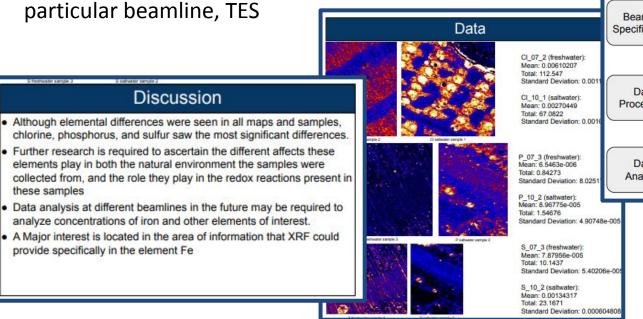
elements play in both the natural environment the samples were

analyze concentrations of iron and other elements of interest.

provide specifically in the element Fe

A Major interest is located in the area of information that XRF could

- Investigated a comparison of elemental composition of wood and nails recovered from a shipwreck in the Long Island Sound (the HMS Sylph) and another from Lake Erie
- Student work focused on learning the function of the NSLS-II (Synchrotron), the type of spectroscopy that is performed at each of the beamlines used at the facility, and how to use the data analysis software associated with one particular beamline, TES



#### Methods

Sample Collection Fresh water samples were collected from an unnamed shipwreck in one of the great lakes. Where the salt water samples were collected from the HMS Sylf off of the coast of Long Island.

Sample Preparation



Samples are pieces of timber and metal pins from a ship that sank in 1815. Samples were prepared at Spectrum Petrographics as thin sections (30 um) mounted with superglue on Suprasil 2A quartz glass for XRF and XRD.

Beamline Specifications x start, y start 21.00000 dwell time 0.200000

007\_3: 6umbeam2700eV x start, y start 21.299999 dwell time 0.280000 x start, y start 21.53 dwell time 0.280000

x start, y start 20.200001 dwell time 0.250000

Data Processing

The TES (Tender Energy X-ray Absorption) beamline was used to scan each sample for the elements that fit between the energy specification set prior to scanning.

Data **Analysis**  The IDL software was used analyze the way the different elements were present in each of the samples. Creating element maps was a way in which it was possible to get a visual comparison between the same element in saltwater and freshwater environments



#### Summer Theater Community Programs Program

- Run through the district's Community
   Programs structure, enrolled students learn, rehearse, and conduct a theatrical performance
- This year the students in the program performed Winnie the Pooh (Grades 3-5) and Circus, Circus (Grades K-3)
- Enrollment: 25 students



#### Summer Theater Community Programs Program





#### **Early Start Program**

- Offered to selected incoming Kindergarten students to build comfort with the structure and routines of the Kindergarten classroom
- Program emphasizes foundational skills needed for a smooth transition to student's new school environment
- 15 students participated in the program this summer



#### **Summer Roundout Program**

- Offered each summer, this program provides students the opportunity to socialize and play
- Students participate in activities designed to build fine and gross motor skills and learn the importance of working together with others as part of a team
- Enrollment: 176 Students



#### **Summer Roundout Program**





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