

Mission

To promote science and

academic achievement through the effective use of technological tools



Participants

☐ Schools

- George Westinghouse HS
- Marta Valle HS
- Paul Robeson HS
- HS of Telecommunication Art and Tech.

Courses

- Marine Science
- Regents Physics
- Regents Biology Conceptual Physics

R evitalizing

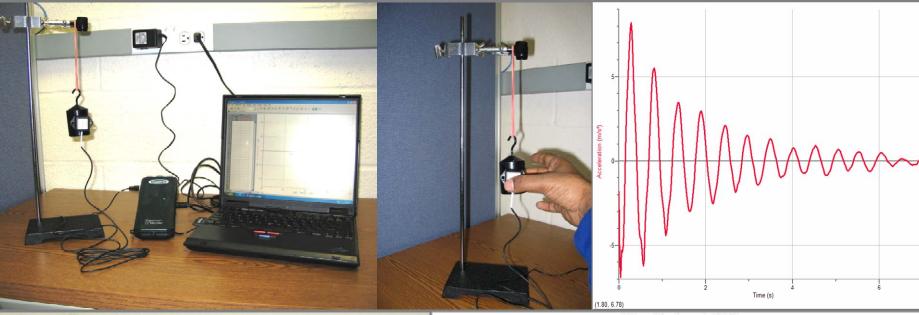
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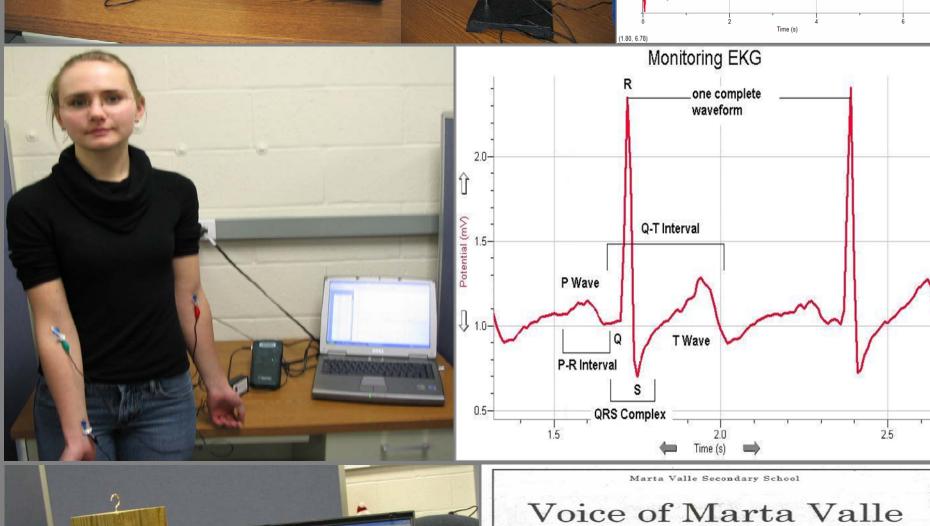
nstrumentation in

S cience

E ducation

From 2005–2007, RAISE project focused on integrating sensor technology in the science labs of 4 NYC schools. This year, we have focused on project sustainability. We received funding from the Independence Community Foundation (\$25,000) and Hebrew Technical Institute (\$15,000), through which 5 Fellows were selected and deployed in 2 schools for the spring 2008 term.





Polytech Partners with MVSS By WILLIAM CUEVAS and RUPSHA MONNAN Undergraduate students from Polytech visit Mr. Avni's and Ms. Mihalcik's sci-ence classes twice a week. They work with both teachers and students in the "My students are excited. They love coming to class," comments Ms. Mihal-cik. "They are very motivated." As a result of a grant from the National Science Foundation, thousands of dollars of lab equipment of been donated to Marta Valle Secondary School. ealing with Stress The program, known as RAISE is a three year pro-

Its goal is to raise student scores in the Living Environment, Physics and Math-A Regents Exams and to integrate technology into the Science classroom.

Central Brooklyn Robotics Initiative (CBRI)

We received funding from the **Independence** Community Foundation (\$175,000) and the Chase Foundation (\$50,000) to develop the Central Brooklyn Robotics Initiative (CBRI), modeled after the GK-12 Fellows program. Under CBRI, 10 Poly students developed a partnership with 10 teachers at 10 schools to challenge their students to design, build, and operate robots in response to the FLL robotics competition. At the 2007 Brooklyn Borough FLL competition, 5 CBRI teams won various awards, including the top award, and qualified for the NYC FLL competition, where 3 CBRI teams won awards.



Members of the Brooklynwinning PS 21 team at the city championship tournament



Brooklyn KIDS

Robot Dreams in Brooklyn: Initiative **Brings High Tech to Urban Students**



Kelechi Stuart and Thomas Smith from P.S. 21 (a CBRI school) in Brooklyn took the top prize, the Director's Award, in the Brooklyn-wide qualifier event, and won the Team Spirit Award in the New York City "FIRST LEGO Championship League Tournament," January 26,



Workshop in Intstrumentation, Sensors & Engineering (WISE)

We received \$297,455 from the Engineers of the Future Program of NYS Education Department for WISE. Under WISE 20 teachers were recruited and mentored in hands-on engineering design in a two week workshop. The program introduced teachers to numerous sensor-based activities by drawing on the RAISE experience.



Nineteen teachers submitted implementation efforts:

Lesson plans Teaching power points New experiments Videos of classroom activities



WISE PARTICIPANTS

13 Men, 7 Women

Age: 25-57

Experience: 0-32 years

Area of Teaching

Physics: 5

Biology: 2

Chemistry: 1

Math: 5

Earth Science: 2

Technology: 5

Polytechnic Team

3 professors

6 Students (1 undergraduate)



