



Tulalip Charitable Contributions Funds Distribution Report

NAME OF AGENCY: Pacific Science Center

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GENERAL GOALS: Pacific Science Center inspires a lifelong interest in science, math and technology by engaging diverse communities through interactive and innovative exhibits and programs.

SPECIFIC USE FOR THIS AWARD:

We are pleased to provide you with a final report on how the support from Tulalip Tribes Charitable Fund has helped us deliver engaging, hands-on science education this past year. In total, Pacific Science Center was able to serve 943,034 children, families and educators across the state of Washington in inquiry-based science, technology, engineering and math (STEM) programming. The support of donors like Tulalip Tribes Charitable Fund was instrumental in helping us work toward our mission to inspire lifelong interest in science, math and technology by engaging diverse communities through interactive and innovative exhibits and programs.

For more information see the attached pages from Pacific Science Center.



researchers from the University of Washington's Chuck Murry Lab, where researchers are working with heart stem cells in the hopes of treating cardiovascular disease, and Fred Hutchinson Cancer Research Center's Colleen Delaney Lab, where researchers are using donated umbilical cord blood to develop a cure for leukemia.

This year we also opened our maker space *Tinker Tank*, a prototype exhibit where visitors have the opportunity to experiment with aerodynamics using wind tables (vertical wind tunnels), gravity walls, cardboard amusement parks, Keva blocks, electric circuits and much more. We hope to make this a permanent space in 2015.

High school students enrolled in the Science Center's Discovery Corps program are an integral part of our Science Interpretation Program, which enhances the visitor experience by facilitating scientific discovery through personal, inspiring interactions. After completing the multi-year youth development program, all 27 Discovery Corps members who graduated from high school this past spring started college this fall – at MIT, Stanford, Cornell, Columbia, Northwestern, University of Washington, Western Washington University and other colleges. This group included 21 students of color, 16 women, 10 students who speak a language other than English at home and seven first-generation college students. Almost one quarter of the class qualified for free or reduced price meal programs through their school.

During the 2013-2014 fiscal year, 13 new Discovery Corps members joined the program. At its peak, the program boasted 85 active members from 40 local high schools. Youth worked over 18,700 hours in volunteer and paid positions on Pacific Science Center's exhibit floor interpreting science concepts for visitors and engaging them in hands-on activities. Additionally, students participated in 43 internships, including onsite positions with a variety of Pacific Science Center departments, offsite positions with the Science Center's Science On Wheels program, and with external organizations like the University of Washington, where interns assist researchers.

Mercer Slough Environmental Education Center

At Mercer Slough Environmental Education Center (MSEEC) in Bellevue we served 10,645 children, families and educators last year through school group field study opportunities, summer and spring break camps, and other community programs designed to connect children, families and educators with nature through the science that helps us understand the world and our interactions with it. In its second year, the Polliwog Preschool program at MSEEC expanded to reach 38 preschool students in both morning and afternoon sessions.

Teen programming at MSEEC includes the Lake Washington Watershed Internship Program, a year-long (September to June) program that helps teens become informed stewards of their local community through mentoring, hands-on learning, habitat restoration and stream monitoring. The Environmental Science and Technology Practicum, a nine-week program for youth in grades 9-12, explores environmental science, clean technology and associated careers. Each Practicum session offers in-depth, hands-on aquatic and terrestrial research in the wetland and our state-of-the-art wetlab, as well as the opportunity to learn about careers and educational pathways from professionals in these fields. Environmental Science Pathways for youth in grades 6-8 is a weekly after-school program for youth interested in environmental science and clean technology. During this eight-

week series, students discover the science behind renewable energy, watersheds and our natural environment.

Outreach Programs

In addition to onsite exhibits and programming, Pacific Science Center offers outreach programs that reach an additional 170,000 people across the state. Science On Wheels, the outreach program that brings interactive workshops, live stage shows and portable exhibit sets to schools and community venues, is on track to complete another successful year by providing exciting science activities to participants in schools, community venues and special events across the region. Last year, Science On Wheels delivered hands-on science programming to 141,333 children and adults at 585 venues throughout the region. We continuously strive to develop curriculum and expand Science On Wheels' offerings and are excited to deliver even more programming to support science learning, both in and out of school. The STEM-OST (Science, Technology, Engineering and Math – Out-of-School-Time) program is a free program delivered primarily during the summer months by Science On Wheels teachers and teens from our Discovery Corps program. This past summer, the program reached 893 children at 46 locations. Math & Science Mashups, free evening events for families in the Puget Sound region, were delivered by Science On Wheels staff in partnership with ZENO. More than 1,900 people were served at 15 community venues.



Pacific Science Center's Science Cafe program brings local researchers and community members together in the casual atmosphere of a local pub. Science Cafes occur monthly at locations in Seattle, Kirkland and Tacoma, and feature a presentation by scientists on a variety of topics, followed by questions and answers with the audience. All ages are welcome, and no previous science background is required. 2,686 people attended Science Cafe events last year.

Our new Teen Science Cafe program, reached 349 teens at two venues last year. Cafes offer opportunities for teens to talk with local scientists and researchers about current and cutting-edge ideas in science and technology, all in a relaxed and informal setting. Teen Science Cafes are free to attend, feature free snacks and hands-on activities, and are run by teens for teens in their local community.

Washington State LASER (Leadership and Assistance for Science Education Reform), was busy this past fiscal year helping to implement the new Next Generation Science Standards in classrooms across the state. Since 1999, the public/private partnership operated by Pacific Science Center has worked with 106,300 educators in more than 205 school districts to share and inspire powerful practices in science education – from student notebooks that combine science, literacy, math and art to strategic planning that creates a shared vision from classroom to school board. LASER provides workshops and professional development for educators, administrators and community members to build their knowledge of current research and best practices, develop a shared vision and set of common goals, design and implement a school district infrastructure for support, emphasize improving instructional practice, and to focus on increasing student learning and achievement.