



Cascades Science Center

INSPIRING KIDS TO DEVELOP A PASSION FOR SCIENCE THROUGH FUN AND INTERACTIVE EXPERIMENTS



Announcing our quarterly newsletter

In the hopes of keeping a wide audience informed about our most exciting projects, the Cascades Science Center Foundation (CSCF) will be producing a quarterly newsletter. The newsletter will be available on the web site and distributed to interested parties. If you have questions about the newsletter or suggestions for future editions, please contact the current secretary, Desiree Phair, at:



deiree.phair@cascadescience.org

Preparing our case



Special points of interest:

- *First quarterly newsletter*
- *Draft of Case Statement available for review*
- *New logo*
- *Updated website*
- *Launch event planning underway - stay tuned!*

The CSCF Business Committee has been actively working on completing a case statement so we can begin the fundraising activities for the foundation. The case statement also includes a comprehensive set of statistics that reiterate the need for developing a child's love of science.

Inspiring passion for science must happen at a formative age so that a child's curiosity

and fascination can fuel a life-long pursuit of knowledge. It is our goal to provide a venue for a for the whole family to discover and explore science.



To achieve this, the CSCF will

build and maintain a physical environment dedicated to scientific discovery, incorporating innovative design, experimental labs, and interactive group activities.

You can review first draft of the CSCF's case statement on our website. We look forward to your input!

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Strategic Planning Breakthroughs



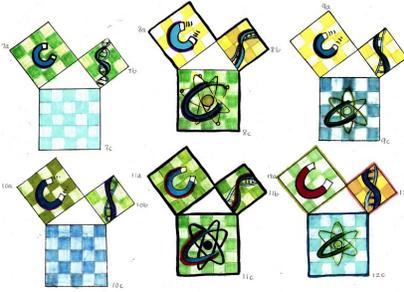
While the CSCF has long been working on defining its mission, the group recently took steps to solidify a formal strategic plan. Based on a list of possible goals and objectives, a committee composed of board members and advisors selected our top priorities and established target outcomes and dates. With this foundation in place, board members will establish and carry out action plans to meet outcome deliverables. Expect action plan updates in future communications. Many thanks to **Siren Hakimi** and **Sonu Arora** for laying the groundwork and Microsoft's **Raj Kunnath** for lending his expertise.

Fun with logo design

The Pythagorean Theorem was one of the earliest theorems known to ancient civilizations. The theorem states that “the area of the square built upon the hypotenuse of a right triangle is equal to the sum of the areas of squares upon the remaining sides.” The area of two smaller squares (A and B) is equal to the area of the largest square (C), which algebraically expressed is: $a^2 + b^2 = c^2$. The Cascades Science Center Foundation has chosen the Pythagorean Theorem to be its logo.

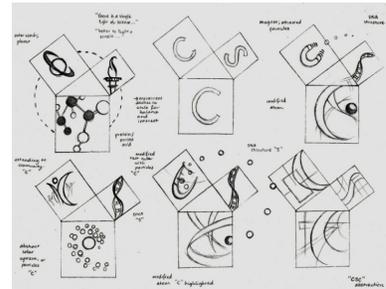
Mary Yap is a talented artist who has created phenomenal artwork at a very

young age. You can check out her art work at: <http://touchofbluemag.com>. She has been helping the foundation



with the logo design. She experimented with scientific imagery within the theorem’s visualization to repre-

sent the elements of our world that science brings together under human understanding. For initial stages, the



foundation has chosen a simpler logo, with the advanced designs to be used for special events. Thanks Mary!

Project Spotlight: “Science in a Box”



CSCF’s **Siren Hakimi** has been leading a new project called “Burke Mobile - Science in a Box” in partnership with the Burke Museum of Natural History and Culture, a subsidiary of

University of Washington, with the goal of bringing hands-on science-related projects into the classrooms in King County schools. These experiments are meant to be fun, interactive and educational.

An example of a “Science in a Box” kit includes raw materials and a guide for constructing a solar-powered toaster. The kit will also come with a set of instructions for the teachers to incorporate this kit into the course curriculum.

We have begun our conversations with the Lake Washington School District to identify pilot elementary (K-5) schools for this project.

The mission of this project is to provide inspiration to young children to explore aspects of Science, Technology, Engineering and Mathematics (STEM) at young ages. It will also be a fun, educational and stimulating start for children who do not have access to science experiments in existing curriculums.

CSCF needs you!

We need the help of volunteers, community, schools, state and corporations to make the vision and mission of CSCF a reality. We are actively recruiting like-minded, passionate people for our many volunteer positions, including:

- Board of Directors
- Advisory Board Member
- Graphics / Web Designer

- Fundraising Coordinator
- Event Planner
- Project Manager

We are also actively seeking seed funding to recruit an active Executive Director for the foundation. If you know of a qualified individual who would fit the bill, please send us your recommendations.

We would like to thank our volunteers for donating their time to advance the mission of the organization.

If you are interested in volunteering, contact us through our website or by emailing us at

volunteer@cascadescience.org

Experiment corner with Jim Burrows

Science is big fun! Here is an experiment to whet your appetite for creative exploration!

Ice cream without a freezer

Can you freeze something without a freezer? Learn the answer while you share this activity with friends and family.

Ingredients

- 1/3 cup of milk
- 1 tablespoon sugar
- 1/8 teaspoon vanilla
- 1 quart size zipper lock bag
- 1 sandwich zipper lock bag
- Ice
- 6 tablespoons salt

What to do. Do this with a partner.

1. Place milk, sugar and vanilla in the smaller bag. Seal carefully.
2. Put ice in the larger bag and add the salt.
3. Place the smaller bag of milk into the larger bag of ice and seal.
4. Shake for about three minutes, until the milk freezes to the consistency of frozen yogurt. Each partner can grab two corners of the bag to shake.
5. Eat!

What's happening?

The salt makes the ice in the bag melt quickly. This temperature change from ice to water requires heat. The heat is drawn from the milk mixture, so the milk mixture gets cold and freezes.

Recipe Hints

- If you'd like other flavors, add chocolate drink mix or fruit.
- What happens if you don't use salt on the ice?
- What if you doubled the recipe?



Jim Burrows is founder of The Science Club (<http://scienceclub.org>) and an advisor to C.SCF.

Member Spotlight: Ellis Corets



Ellis Corets is the Founder and President of the Board of Directors of the Cascades Science Center Foundation.

A retired Boeing engineering manager, his career paths also included civil engineering and financial consulting. Among his many interests and areas of community service, he founded and directed "Pedal for a Purpose" which integrates fundraising programs with major bicycle riding events. As a cancer survivor, he actively supports cancer research at the Fred Hutchinson Cancer Center. He is a founding member of the Eastside Astronomical Society. As a member of the Friends of the Planetarium, he helped in the acquisition of equipment and putting on star shows on at the

Bellevue Community College Planetarium. Ellis resides in Bellevue, Washington, with his wife, Roberta; he has four daughters and five grandchildren.

As a young boy from the Bronx visiting New York's Hayden Planetarium, Ellis was mesmerized by the night sky on display. The following week at school, he recalls being able to name the constellations when questioned by the teacher. Many years later, he helped found the Eastside Astronomical Society, and his passion for the sciences continues to influence his life and those around him today.

Why a science center for children? Ellis envisions the Cascades Science Center providing exceptional life experiences to school-age children. "I think we completely underestimate the capacity of 4-7 year-olds to comprehend complex subjects. At about that age, we learned a very complex equa-

tion with 26 independent variables, and given the first, second and third - or 18th, 19th and 20th variables - , you would give me the next three variables without question. If I say 'A, B, C,' a child at that age will say 'D, E, F.' I have never lost this bet. This is why the whole focus of the science center will be on children from kindergarten to 8th grade, to capture this critical time of learning capacity," says Ellis.

"WE MAY NOT SEE IT IN OUR LIFETIME, BUT THERE WILL BE SOMETHING A CHILD SEES AT OUR SCIENCE CENTER, OR EXPERIENCES, THAT WILL TAKE THEM INTO A JOURNEY OF EXPLORATION AND DISCOVERY THAT WILL CHANGE THE WORLD."

To read more about Ellis Corets, visit Board of Directors page on our website.

Cascades Science Center Foundation

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The **Cascades Science Center Foundation (CSCF)** is a 501(c)(3) nonprofit corporation with the long-term goal of inspiring kids to develop their natural passion for science. The foundation is in the early stages of developing and funding a science and technology center in East King County, Washington. This new science and technology center will be named Cascades Science Center. The primary focus of Cascades Science Center will be to expose children from kindergarten through eighth grade to the fields of science, technology, engineering, and mathematics through hands-on experiences. The foundation is currently sustained and operated entirely by volunteers. We are inviting community-minded individuals and organizations to join us in our effort to realize our vision.

Contact info@cascadescience.org for more information.

Website Overhaul

The Information Technology (IT) committee has made major changes to the organization's website. Initial changes took place "under the hood," improving underlying data structures and increasing document accessibility. Several volunteers and board members also contributed and edited fresh text. The IT committee has most recently turned its attention to the site's graphic design; expect more revisions in the coming months. While all committee members deserve applause, the CSCF would especially like to thank the following members:

- **Sinan Uşşakli** for his tireless work on developing the website
- **Prayas Shr** for lending us his

Web Design expertise in crafting a new look-and-feel for the website

- **Andrew Horton** for providing the server infrastructure for hosting the website.
- **Ani Babaian** for providing us with tips and tricks for effective online presence.

Over the next few months, the members of the IT committee will continue their work on increasing the foundation's online presence. We welcome your feedback to improve this website further. Use our blog on the website to find regular updates and post comments.



To view the website and to follow its continued evolution, visit our website:

<http://www.cascadescience.org>