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Cover Photo: At an outdoor STEM Festival in Alexandria, Volunteer David Klinges explains how pushing a straw through a multi-layered cupcake is like taking a soil profile to identify different layers underground.
RESET - Looking Back and Ahead

A Message from RESET’s Departing Executive Director

For the past 11 years I have had the good fortune to serve as RESET’s Executive Director. During that time, it has been my pleasure to work with many RESET Board Members who have generously donated their time and talents to strengthening RESET’s organization and programs. I have also met many educators who are deeply committed to all facets of their students’ development, including the opportunity to experience hands-on science and math learning and to interact with STEM professionals. I have been impressed by corporate and foundation donors who share their hard-earned wealth to fund organizations including RESET. Most of all, I have been lucky to meet hundreds of volunteers who commit their time and expertise to bring their love of science and math to new generations of students. Hearing the reasons these volunteers want to share their motivations and knowledge with children has been the highlight of my time with RESET. I will carry those inspiring memories with me always.

—John Meagher

A Message from RESET’s Incoming Executive Director

As RESET’s incoming Executive Director, every day I continue to be amazed by the commitment, resilience and vibrancy of this thirty-year old organization. RESET’s impact reflects the dedication of its Board, its staff (with special recognition to retiring Executive Director, John Meagher), the many schools, principals and teachers that work with RESET and, of course, RESET’s volunteers who share their expertise, passion and enthusiasm with young students. Perhaps most important, having witnessed RESET’s classroom presentations, is the excitement generated in the students whose lives we touch and whose hopes and dreams RESET inspires. It is essential to RESET’s continuation and growth that its mission, history and uniquely efficient operation become more widely known; that we acknowledge and expand the base of our financial donors; and that our outreach be extended as RESET seeks to serve more students -- be it in classrooms, after-school, weekend or scouting programs. As day by day and month by month I assume my new duties, I grow more committed to RESET’s founding goals and to developing the resources and support necessary to sustain and expand RESET’s mission in the years ahead.

- Keith Osterhage

John Meagher, left, and Keith Osterhage
Volunteer Anne Erickson

Putting the “M” in STEM!

Math Enthusiast Anne Erickson volunteers with RESET because she wants kids to have fun with math. For example, with her friend Bill Rippey, she led a cryptographic treasure hunt for third graders, with six different kinds of clues. She and Bill have also played educational math games with first graders. Her favorite activity is a mathematical card trick which is sophisticated enough to impress professionals yet easy enough for elementary school students to perform.

A session with Anne and Bill, illustrated by a third grader at Clopper Mill Elementary School (Montgomery County)

A Pigpen Cipher, part of a Cryptography Treasure Hunt
RESET Program Data

The 2,108 students enrolled in RESET classroom programs during school year 2017/18 were a slight increase over the previous year, and more than in any previous school year. Since 2012, RESET has experienced significant growth in students served and active volunteers. The graphs below show this growth over a five-year period.
Teacher Tracy Skeen

An Ambassador for RESET

Teacher Tracy Skeen is an education ambassador for RESET. While at Laurel Ridge Elementary in Fairfax (VA), Tracy hosted RESET programs in her classrooms and helped connect RESET with other interested teachers. Last year Tracy moved to Kings Glen Elementary in Springfield (VA) and spoke to the Principal about bringing RESET to its classrooms. Once again serving as liaison for RESET, Tracy worked with teachers and RESET to bring programs on patents, physics, bridge engineering and computer science to Kings Glen fourth, fifth, and sixth graders.

Tracy “enjoys seeing her students doing hands-on lessons as they become more and more excited about the science and math they are learning with their RESET volunteers.”

Tracy’s fourth grade students “suit up” for a RESET session.
Student Assessment Results

To measure RESET’s effectiveness in achieving its goal of sparking children’s enthusiasm for STEM, RESET surveys students who have completed a program. The survey instrument measures attitudes towards science learning and uses questions developed by the National Center for Education Statistics (NCES) in preparing The Nation’s Report Card. With these metrics RESET can compare the responses of students in our programs with those of students nationwide who completed the NCES assessment.

RESET received 598 responses to its Student Assessment Questionnaire in school year 2017/18. The data below show RESET’s positive impact on students compared with responses of students nationwide.

<table>
<thead>
<tr>
<th>How much do you like studying science?</th>
<th>Nationwide Results</th>
<th>RESET Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Very Little or Some</td>
<td>41%</td>
<td>21%</td>
</tr>
<tr>
<td>Very Much or Quite a Bit</td>
<td>59%</td>
<td>79%</td>
</tr>
</tbody>
</table>
Student Assessment Results (continued)

RESET asks several additional questions. The results below show the positive impact RESET volunteers have on student attitudes toward STEM.

**How did you like the science classes that you had with your science visitor?**

- Very Much: 73%
- Quite a Bit: 16%
- Some: 7%
- Very Little: 4%

**Did having your science visitor in your classroom change the way you feel about science?**

- I like it more: 27%
- I like it the same: 3%
- I like it less: 70%
Although RESET’s expenses exceeded its income by approximately $2,100 in fiscal year 2018, RESET ended the year with net assets of $88,100. RESET continues to keep its administrative and management costs at a modest level, investing a high percentage of its operating budget in the delivery of programs that support its mission.

RESET expenses include program operations staffing, classroom skills training, field trips, classroom materials, fundraising, communications and liability insurance.
RESET is grateful to our partner schools and community service organizations that help us to deliver hands-on STEM learning to children.

District of Columbia

Amidon-Bowen Elementary—Ward 6
DC Prep Anacostia Campus—Ward 8
DC Prep Benning Campus—Ward 7
DC Prep Edgewood Campus—Ward 5
Excel Academy --- Ward 8
Harmony Public Charter---Ward 5
Martha’s Table -- Ward 8
Payne Elementary---Ward 6
John W. Ross Elementary---Ward 2
Shaw Center City Public Charter —Ward 6
Shepherd Elementary—Ward 4
Whittier Educational Campus—Ward 4

Maryland

Annapolis Elementary
Cannon Road Elementary
Clopper Mill Elementary
High Bridge Elementary
Montgomery County Coalition for the Homeless
Girl Scouts of America
Princeton Elementary
Sligo Creek Elementary
Waugh Chapel Elementary

Virginia

Arcola Elementary
Barrett Elementary
Bren Mar Park Elementary
Buckland Mills Elementary
Camelot Elementary
Creighton Corner Elementary
Cora Kelly Elementary
Crestwood Elementary
Drew Model School
Ellis Elementary
Fairhill Elementary
Girl Scouts of Alexandria
Virginia (Continued)

Girl Scouts of Fairfax
Glebe Elementary
Horizon Elementary
INMED Partnerships for Children
Jefferson-Houston Elementary
Kings Glen Elementary
Liberty Elementary
Landmark Science Club
Moorefield Station Elementary
Stratford Landing Elementary
Sugarland Elementary

Delaware

Cab Calloway Summer Camp, New Castle
Gravity Arts and Science Festival, New Castle
Reeds Refuge STREAM Event, New Castle
Route 9 Public Library, New Castle

Vermont

J.J. Flynn Elementary, Burlington
Volunteer Sharayu Tulpule

“I want to instill a sense of wonder in the minds of young children.”

Sharayu Tulpule says the best part of being an engineer was working with NASA on its space shuttle program. Sharayu is one of RESET’s most active volunteers, reaching hundreds of fourth and fifth grade students in nine different classrooms in Prince William County (VA) this year. Her topics include motion, electricity and magnetism. In one session her students assembled “Foldable Microscopes.” Buckland Mills teacher Carrie Rauch wrote: “We thank you for bringing the RESET program to our school and look forward to working with you and Ms. Tulpule next year!”

Sharayu started volunteering in 2016 at Buckland Mills Elementary. When Principal Connie Balkcom later became the Principal of Ellis Elementary, she asked Sharayu to bring RESET to its students. Now Sharayu leads programs at both schools. On their RESET field trip, when Sharayu shows her students the shuttle at the Udvar-Hazy Air and Space Museum, where they get an up-close view of, and can better appreciate, her professional activities.
RESET Volunteers

Laurel Abowd
Vikas Akaraju
Kaylea Algire
James Henry Alstrum-Acevedo
Raul Arenas
Latif Armiyaw
Thomas Artman
Olivia Barber
Savannah Barkdull
Greg Barranco
Senem Bas
Emily Behrman
Ezekiel Bello
Priyanka Bhatia
Alexandra Brady
Kristin Branson
Jaclyn Brennan
Martin Brill
Ken Brown
Nathan Burns
Keegan Caldwell
Colby Carlone
Alexie Carletti
Rebecca Chillrud
Abonyi Chuckawonsu
Charles Cisneros
Brandon Cole
Brian Coleman
Loretta Collins
Aletha Cook
Dave Corbin
Paola Correa
Peter Creutzberger
J.I. Cruz
Casey Culhane
Margot Cumming
Reilly Curtin
Eman Dadashian
Maru David
Brad Davidson
Rachel Dixon
Christoper Dolce
Laura Drescher
Dan Durandetta
Mike Economo
Roian Egnor

Larissa Erben
Anne Erickson
Claire Eschbach
Chelesa Fearce
Erin Fingleton
Wambura Fobbs
LaShawn Fortune
Laura Free
Emily Freeman
Bill Gill
Suzanne Gleason
Ashleigh Glowacki
Mike Goldstein
Kara Goodwin
Carina Graham
Eileen Graham
Gretchen Greene
Eric Greenlee
Eyal Gruntman
Maria Guimaro
Sarbari Gupta
Shobhit Gupta
Jessica Han
Yahaira Hanon
Jeremy Hanson
Sandra Hernandez
Scott Hester
Kat Hetland
Elaine Hinrichs
Brianne Hite
Paige Hobaugh
Joey Hoecherl
Sara Holtz
Kathryn Hoppe
Elaine Hinrichs
Jenny Hsin
Phoebe Huang
Brad Hulse
Gina Hunt
Tom Ilich
Sarah Inwood
Tihana Jovanic
Saurin Kantesaria
Joshua Kaufman
Natasha Kesav
Jacqueline Kielyka
Shaheen Khurana

David Klingles
Sneha Kolapalli
Andrew Kubiak
Briana Kulisch
Rajani Kumar
Saloni Kumar
Nghi Lam
Jacqueline Lang
Nicole MacIlvane
Maddie Larkin
Stephen Leete
Deb Liezewek
Anders Lindstedt
Christine Liu
Kit Longden
Clara Lin
Colin Lynch
Joe Mait
Kathy Magill
Neha Malik
Grace Maloney
Bridget Marcinkowski
Bill Massouda
Anna Maximova
Curtis Mayes
Brooke Meader
Lindsey Mehl
Maame Mensah
Monti Mercer
Manuel Mohr
Nina Mortazavi
Shannon Moyer
Jenny Nathans
Wanda Negron
Leonard Nettey
Makuyo Nettey
Emily Nielson
Alicia Nolden
Erica Normandin
Tomeka Oubichon
Adeoye Owolewa
Gaby Paez
Goral Pahuia
Richard Pan
Emily Peluso
Anthony-Peter Pappas
Bashir Partovi
RESET Volunteers (Continued)

Nittan (Kumar) Patel
Harshita Pathipati
Rachita Pathipati
Cynthia Peacock
Mike Perkins
Minh Q. Phan
Corrie Picoraro
Jutta Pils
Drew Pizzala
Jay Pischke
Maria Pischke
Kaspar Podgorski
Brad Power
Lucinda Power
Wendy Quaye
Nadine Randel
Mahi Rana
Ben Rahimi
Chris Rahimi
Nadine Randel
Catherine Rastovski
Kyle Reichard
Sean Ritter
Alice Robie
Terrell Robinson
Christina Rodriguez
Aurelie de Rus Jacquet

Bobby Rushing
Marya Sabir
Ajmeeta Sanghani
Pedro Santos
Leisha Schiess
LauraAnn Schmidberger
Josh Sciurba
Nuttiya Seekhao
Steve Shafer
Sue Shealy
Charles Shedrick
Shanni Silberberg
Kara Skipper
Harold Smith
Peter Sowa
Julia Sproch
Sanjay Sreekumar
Darius Stanton
Lisa Steinberg
Dan Streeter
Pallavi Surana
Lauren Taneyhill
Gabby Tender
Gowan Tervo
William Thomson
Jordan Towne
Nathanie Trisnadi
Sharayu Tulpule
Cheng-Yuaan Tseng
Jordan Towne
Mathilde Turfkruyer
Jason Turner
Dan Turner-Evans
Cyrus Uedoi
Francesca Uribe-Rheinbolt
Juan Valentín
Andy Vo
Katie Vollmer
Jennifer Wang
Katherine Wares
Laureen Weeden
Andrea Wellington
Oscar Wygyul
Ann Williams
Michelle Williams
Enaighen Wowe
Cuiyin Wu
Keisuke Yamamoto
David Yarnell
Chris Youn
Dan Wei Yuan
Qinsi Zheng
Kenneth Zhou

RESET partners with government, private sector and non-profit organizations that provide teams of volunteers to deliver RESET programs:

- Andrews Air Force Base
- Curiologie in the Classroom
- The Environmental Protection Agency
- The Howard Hughes Medical Institute
- The National Oceanic Atmospheric Administration
- The U.S. Patent & Trademark Office

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Bill Gill, 1935-2018, Volunteer at Stoddard and Shepherd Elementary Schools in Washington, DC and High Bridge Elementary in Bowie, Maryland

"My first couple of sessions were bombs! I was talking too much, trying to teach the class ‘important engineering principles.’ I think the teacher was ready to throw me out. But then, during my third session, I put together a circuit with a battery and switch and demonstrated how a flashlight works. I then gave the kits to the class and they were elated when they finally got the light to turn on. A little Russian girl (Stoddard is near the Russian embassy) even made up a song about me – ‘Mr. Electricity Man.’"

Bob Hauptman, 1925-2018, Volunteer at Page Elementary, MD

In 2008 Bob told RESET he most admired his brother, Herbert Aaron Hauptman, who won the 1985 Nobel Prize in Chemistry.” Before retiring and volunteering for RESET, Bob was a Senior Systems Engineer at Loral Aerosystems.

Nancy Grace Roman, 1925 -2018, Volunteer at Shepherd Elementary, DC

In her obituary, the New York Times said, “She was a trailblazer for women at a time when science was considered a man’s world and she became a longtime advocate for women in science.”

Nancy was NASA’s first Chief of Astronomy and was known as “The mother of the Hubble Telescope.” She spoke at RESET’s 25th Anniversary Event in 2013. The picture at left is from RESET’s February 2003 newsletter and shows Nancy at Shepherd Elementary with teacher Tim Leonard.
RESET Program Support

RESET's income from Community and Family Foundations and Corporations grew in 2018. Increased funding enabled RESET to expand to new locales, establish more partnerships with schools and community organizations, improve volunteer classroom skills, and expand classroom content including in the computer science program.

RESET is grateful for the generous financial support it receives from corporations, community & family foundations and individual donors.

Community and Family Foundations

- Boothe Family Fund
- Business Women’s Giving Circle of the Community Foundation for Northern Virginia
- Jack Kent Cooke Foundation
- Cardinal Health Foundation
- Clark-Winchcole Foundation
- Morris and Gwendolyn Cafritz Foundation
- Jack Kent Cooke Foundation
- Dimick Foundation
- Max and Victoria Dreyfus Foundation
- Elkes Foundation
Community and Family Foundations (Continued)

- Foley Hoag Foundation
- John Edward Fowler Memorial Foundation
- Marilyn T. and David R. Heebner Foundation, Inc.
- Erna and Michael Kerst Fund
- Matthew Korn and Cynthia Miller Family Foundation
- Richard E. and Nancy P. Marriott Foundation
- Morrison & Foerster Foundation
- Mufson Family Foundation
- Luther I. Replogle Foundation
- Hattie M. Strong Foundation

Corporations

- American Airlines
- Employees Community Fund of the National Capital Area
- Northrop Grumman
- SRC, Inc.
- Taste of the South

In-Kind Support

- Living Classrooms (cost sharing for science cruise field trips)
The Elkes Foundation – Spreading STEM Opportunities to a Broader Base of Children

David Elkes of the Elkes Foundation learned about RESET in the Catalogue for Philanthropy, which selects the best small non-profit organizations in the Washington DC area. The mission of the Catalogue is to “create visibility for our charities, fuel their growth and create a movement for social good in our region.” David Elkes’ motivation for the Foundation’s 2017 grant goes to the heart of RESET’s mission: "One of my daughters participated in the Maryland Science Olympiad program in 7th and 8th grades and I was amazed by both the students’ achievements as well as the parents’ involvement and devotion. I sincerely applaud your efforts to provide such experiences to a broader base of children and feel fortunate to be in a position to make a donation to your organization."

The Foundation provided another major grant this year. RESET’s John Meagher commented, “We strive to provide hands-on STEM learning and field trips to students in economically disadvantaged neighborhoods; reaching a broad base of children is part of who we are. We thank the Elkes Foundation for their generous support.”

The Elkes Foundation was established by David’s father, Terrence Elkes (1934 - 2008), the President of Viacom in the 1980s.

A third grader experiences the view through a prism in a RESET session led by Volunteer Sandra Hernandez.
American Airlines Helps RESET Students Take Flight

American Airlines first provided a grant to RESET in 2012 and since then has been a loyal funder for RESET programs. “AA supports our programs with both funds and AAdvantage flight miles,” says RESET’s John Meagher. “This enables us to nurture our current school partnerships, expand to additional schools, and pursue new program opportunities.”

Katy Phillips, Community Relations Manager at American Airlines, spoke enthusiastically about its longstanding support: “With global business comes global responsibility. As the world’s largest airline, we’re proud to give back in the communities where our team members and customers live and work, such as Washington, DC. American proudly supports nonprofit organizations, like RESET and the excellent work they do to inspire and engage students in the DC community. Together, we can let good take flight.”

RESET has endeavored to engage corporations in its work, as they are the future employers of RESET students. Katy agreed, “By encouraging students to engage in the fields of science, technology, engineering and math we are helping to create the future pilots, mechanics and aviation professionals who can lead American Airlines in years to come.”

Using AAdvantage miles included in American Airlines grants, RESET was able to take advantage of an opportunity to establish programs at J.J. Flynn Elementary School in Burlington, Vermont.
Individual Donors—2018 Annual Fund Campaign

RESET’s Annual Fund Campaign is supported by individual donations generated through fundraising appeals, employee crowdfunding, online giving venues, and local and national annual giving campaigns, including:

- Amazon Smile
- The Combined Federal Campaign
- Do More 24
- Giving Tuesday

RESET Founder’s Circle—$1,000 and above
David Adler

Platinum Level—$500–999
Susan Girgis

Gold Level—$250–499
Lew Mendelson
Gideon S., Dominoe, and Maxima Sorkin
Juan Valentin
Oscar Wiygul

Silver Level—$50–249
Asha Allam
Claudia Austin
Dennis and Margaret Boles
Deborah Buchanan
David Cyrus
Judith Hadley
Susan Hesser
Shaheen Khurana
Howard and Sherri Kohr
Karen Matragano
John Meagher
Adeoye Òlowela
Brad Power
Marya Sabir
Matt Schweisberg
Jim and Katie Sebastian
Randy Spicer
Robert Wayland
Tom Yocom

Bronze Level—Up to $49
Steve Hellem
Gayle Kornman
Rachel Sharlin
Mary Tehan
RESET Board and Staff

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• David T. Adler, Financial Analyst, Washington, DC
• Claudia C. Austin, Teacher, Richard Montgomery High School, Rockville, MD
• Susan Hesser, Consultant, Commercial Real Estate Agent Annandale, VA
• John W. Meagher, Fairfax Station, VA
• Lewis Mendelson, Board Chair, International Capital Market Consultant, Bethesda, MD
• Adeoye I. Owolewa, RPh, Pharmacist Washington, DC
• Marya S. Sabir, National Institutes of Health, Academy Fellow, Bethesda, MD
• Oscar H. Wiygul, Nuclear Reactor Operator, Fairfax, VA

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• Sherryl Kohr, Volunteer Classroom Skills Advisor, sherri.kohr@gmail.com
• Helen Nelson, Certified Public Accountant, hnelsoncpa@gmail.com