



2018 ANNUAL REPORT

The Power of Partnerships



ENGINEERS
WITHOUT
BORDERS
USA



Contents

EWB-USA OVERVIEW:

- 03 Mission & Vision
- 04 Collaboration
- 05 Where We Work
- 06 Our Projects

POWERFUL PARTNERSHIPS:

- 07 Get Water Flowing
- 08 Provide Economic Opportunity
- 09 Help Build Resilient Communities
- 10 Keep Homeless Teens Connected
- 11 Overcome Challenging Obstacles
- 12 Prepare Tomorrow's Leaders
- 13 Help End Poverty

FINANCIALS & BOARD:

- 14 Our Financial Story
- 16 Our Capacity Builders
- 19 Our Board of Directors

Mission

EWB-USA builds a better world through engineering projects that empower communities to meet their basic human needs and equip leaders to solve the world's most pressing challenges.

Vision

EWB-USA's vision is a world in which every community has the capacity to sustainably meet their basic human needs.

Great Things Happen When We Work Together

That's why we've made collaboration central to our mission.

We're thrilled to have thousands of partners in the form of universities, non-governmental organizations, students, professionals, donors and leaders.



Sticks in a bundle are unbreakable.
—Kenyan Proverb

It's true. As we connect with others, our power to do good in the world is exponentially increased. And we know that we're at our best when we're moving forward with our neighbors, peers and colleagues here and around the world. Our collaborative ethos is the thread that weaves our work together.



COLLABORATION—IT'S IN OUR DNA

In April 2000, Dr. Bernard Amadei, professor of civil engineering at the University of Colorado Boulder, visited a community in San Pablo, Belize, to assess their water supply. He learned that the 950 Mayan Indians living in the jungle lacked clean water and sanitation infrastructure.

The community also lacked the technical skills to build a reliable, lasting water supply system. Professor Amadei went back to Boulder, consulted colleagues on potential solutions, and then returned with a prototype and fourteen of his students to put the plan into action.

The team worked with the community to install a clean water system powered by a waterfall. The University of Colorado students involved in the San Pablo project formed the first student chapter of EWB-USA, and their simple and low-cost solution formed the first EWB-USA project.

Where We Work

In 2018, the 126 projects we completed impacted 3.2 million people.

From solar powered water pumps to latrines and fish farms, our wide-ranging projects have far-reaching implications—more kids in school, less time procuring water, lights on, roofs on, and safe bridges and roads for travel.



Belize
Bolivia
Burkina Faso
Cambodia
Cameroon
Colombia
Costa Rica
Dominica
Dominican Republic
Ecuador
El Salvador
Ethiopia
Fiji
Gambia
Ghana

Guatemala
Country Office
Haiti
Honduras
India
Jamaica
Kenya
Madagascar
Malawi
Mexico
Morocco
Myanmar
Nepal
Nicaragua
Country Office
Panama

Paraguay
Peru
Philippines
Rwanda
Senegal
Sierra Leone
South Africa
St. Lucia
Tanzania
Thailand
Togo
Uganda
Country Office
United States
Zambia
Zimbabwe

44

Countries

28

States

2

Territories



409 Water Projects



36 Agriculture Projects



97 Structures Projects



21 Civil Works Projects



51 Energy Projects



82 Sanitation Projects



9 Information Systems Projects



2 Disaster Relief Projects

707

Projects Underway

POWERFUL PARTNERSHIPS:

Get Water Flowing


EWB-USA has been partnering with the rural farming village of Mkutani since 2012. Together, we are building critical infrastructure for its 3,000 residents and increasing their health and livelihoods.

.....

This rural farming village in central Tanzania is not connected to water services, electricity or paved roads. The region is the driest part

of the country and water scarcity is an ever-present challenge. Prior to the work in Mkutani, residents' primary water source was a nearby polluted river that they shared with grazing animals. Dysentery was commonplace and cholera presented a deadly risk. After intensive planning, a borehole was drilled and a deep well hand pump provided plentiful, potable, bacteria-free water.

This year, the hand pump was replaced with a submersible electric pump powered by solar energy. Community members can now fill a jerry can in seconds. In the next phase of the project we'll be collaborating on a distribution system that pipes water to tap stands in the central village.

 **409**
**Water
Projects**

are improving the health and prosperity of the world's most vulnerable people.





POWERFUL PARTNERSHIPS:

Provide Economic Opportunity

We work with our partner communities in designing, implementing, and maintaining their own infrastructure. This grassroots, collaborative approach to infrastructure development ensures sustainability through community responsibility, participation, and ownership of each project.

Collaborating for Success: Fish Farming in Uganda

The people of Omorio, like 80 percent of Uganda's population, live in rural areas and are dependent on rain-fed agriculture. This dependency, coupled with a changing climate, brings with it an array of unpredictable events such as drought and erratic

rainfall making branching out beyond traditional agricultural crops a practical, environmentally kind, and necessary investment in securing their futures. Supported by the technical expertise of the EWB-USA Fordham University chapter and our Ugandan partner, the Serere Local Fish Farming Initiative, families throughout the region are now farming fish and securing their futures. 2018 saw the creation of the first of four ponds and a breeding center planned for the region.

"These ponds are going to have a life-changing impact on families," Vanessa Gutierrez, EWB-USA volunteer and Fordham's co-president.

 **36**
Agricultural Projects

are helping communities grow a better future.

“

“IT IS NOT ONLY EWB-USA'S RESPONSIBILITY TO LISTEN TO A COMMUNITY BUT TO DESIGN A PROJECT WHICH MEETS THEIR NEEDS AND THEIR ABILITY TO MAINTAIN IT IN THE FUTURE.”

—Cathy Leslie, EWB-USA Executive Director

POWERFUL PARTNERSHIPS:

Help Build Resilient Communities

As we experience increasingly severe climate events and natural disasters, our ability to assist communities in building back in a sustainable and resilient manner will be essential.

Among the many natural disasters of 2018, we responded to the Tubbs wildfire in California, continued our work building back better in the aftermath of hurricanes in the Virgin Islands and

Dominica and also assisted in rebuilding efforts after a volcanic eruption in Guatemala.

Reconnecting the Community of El Socorro

On June 5, 2018 Volcano El Fuego, one of Latin America's most active volcanoes, erupted without warning, belching smoke, raining down ash, and sending rivers of boiling lava onto the communities below. For the town of El

Socorro, Guatemala, El Fuego destroyed a 377-foot pedestrian bridge providing a vital connection to education, markets, healthcare and a path to safety, should the volcano erupt again.

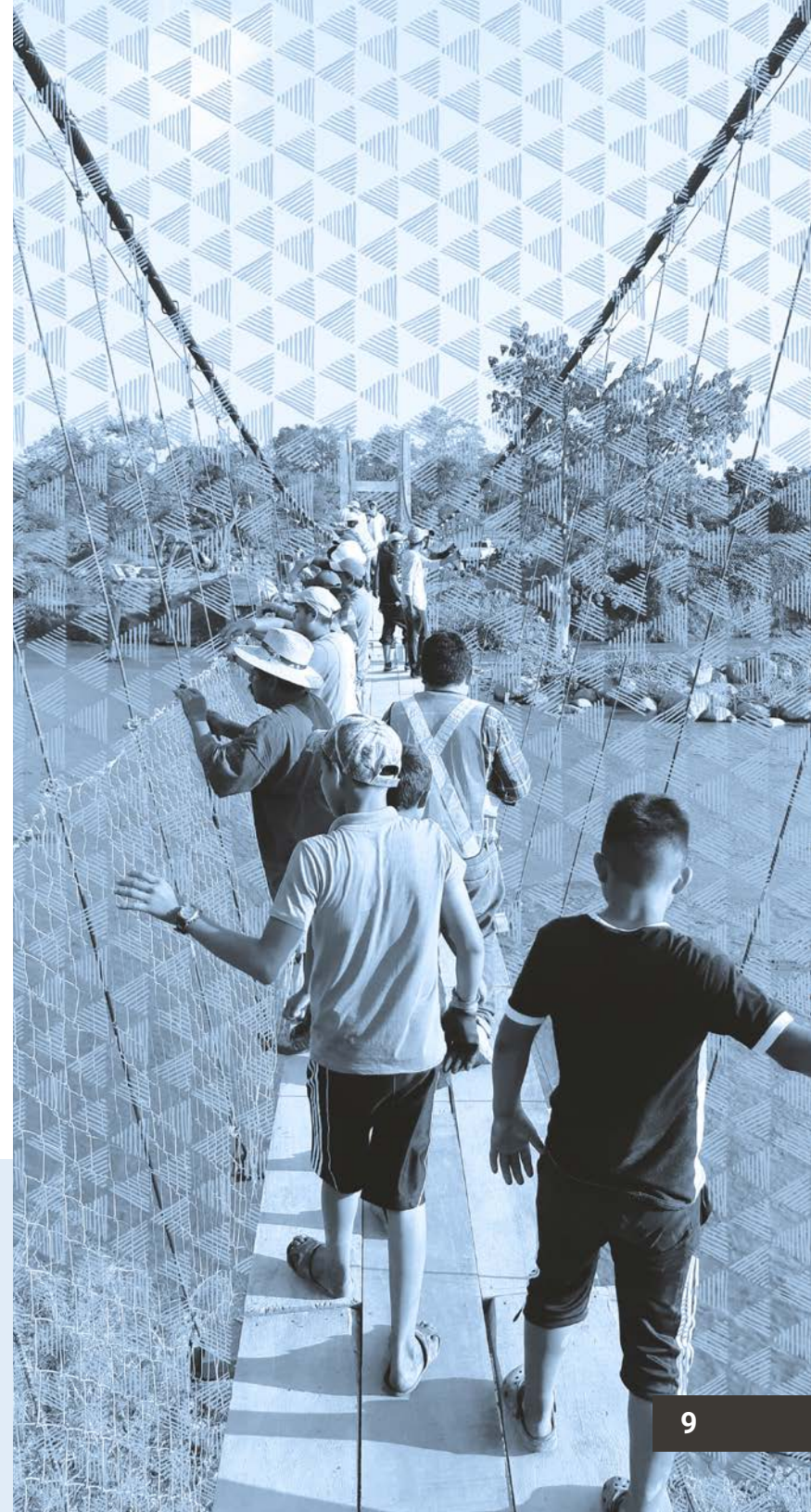
EWB-USA, in collaboration with Rotary and the community of El Socorro, was able to rebuild this bridge. Today, the bridge provides safe passage for the more than 10,000 people who use it.



“WHEN THE PREVIOUS BRIDGE WAS DESTROYED BY THE VOLCANIC ERUPTION... I THOUGHT WE WERE NOT GOING TO BE ABLE TO BUILD IT BACK AGAIN. WE DIDN'T HAVE THE RESOURCES AND KNOWLEDGE TO REBUILD IT, IT WAS A HOPELESS FEELING.

WE WORKED 25 DAYS IN THE CONSTRUCTION OF THE BRIDGE; I SEE IT AND I FEEL GRATEFUL. THANKS TO THE ROTARIANS AND TO ENGINEERS WITHOUT BORDERS FOR THE HELP, WE REALLY NEEDED IT.”

-Doña Aury Cordón, Community Leader





POWERFUL PARTNERSHIPS:

Keep Homeless Teens Connected

For people experiencing homelessness, cell phones aren't a luxury, they're a necessity. The problem is that there are very few public places where people experiencing homelessness can charge their phones.

For students in the EWB-USA University of Tulsa Chapter, helping their peers who are experiencing homelessness was an easy decision. It was a great fit for the technology

they were working on and an identified need of their partner, Youth Services of Tulsa, who found themselves short of charging outlets. The beauty of the team's solution was opting for solar and placing the charging station outside, making it available to teens beyond normal business hours. The charging station was even designed to take inclement weather into account and includes an acrylic rain-resistant cover.

 **51**
Energy Projects

are bringing light, safety and personal empowerment.

“

“WE HAD A FANTASTIC EXPERIENCE WITH EWB-USA AND GOT TO WORK WITH INTERESTING, INCREDIBLY INTELLIGENT AND CREATIVE INDIVIDUALS ESSENTIALLY SERVING THEIR PEERS.”

—Brian K. Young,
Community Relations Coordinator, Youth Services of Tulsa

POWERFUL PARTNERSHIPS:

Overcome the Most Challenging Obstacles

Our field-driven approach is rooted in country offices staffed with local experts.

Currently, our field-driven approach is producing great benefits in Uganda, Guatemala, and Nicaragua. Our on-the-ground presence allows us to collaborate and innovate more strategically, provide guidance, and ensure that our resources are in the right place at the right time.

Just ask the community of La Rinconada, Nicaragua. Political upheaval, riots, and roadblocks proved no rival to EWB-USA's California Polytechnic State University, San Luis Obispo Chapter team which refused

to let these obstacles interfere with their plans to provide clean water to this mountainous rural community. Working from California with critical on-the-ground assistance from our Nicaragua office, the team was able to develop a remote implementation plan and maintain communication with the community and our local partner, the Association of Volunteers for Community Development, keeping the project in motion and bringing clean water to 87 houses and more than 300 people.

 **3**
Country Offices

are increasing our impact and reach in Nicaragua, Guatemala, and Uganda.





POWERFUL PARTNERSHIPS:

Prepare Tomorrow's Leaders

This year we've laid the foundation for three important new programs.

We remain committed to building the next generation of globally-responsible engineers.

By providing hands-on, real-world experience, we're equipping students with the leadership expertise to address critical infrastructure problems. Our global learning lab is fostering a generation of students with a deep concern for how engineering affects underserved communities.

Collaborating Around the Globe

EWB-USA and the National Academy of Engineering will be working to deliver an **EWB-USA Track of the Grand Challenges Scholars Program (GCSP)**, allowing EWB-USA project work to be credited toward fulfilling GCSP competencies.

We are also pleased to be joining EWB-South Africa and EWB-UK in their university-focused **Engineering for People Design Challenge**. This prestigious competition encourages engineering undergraduates to sharpen their problem-solving skills by tackling real-world development issues.

Collaborating at Home

Our Community Engineering Corps (CECorps) program, in conjunction with our chapters and other engineering organizations, will be launching the **"What's In My Backyard?" (WIMBY)** initiative. The campaign enables engineers and technical professionals to connect with organizations and communities locally, with the ultimate goal of providing engineering services in underserved communities across the US. WIMBY is made possible by a grant from the United Engineering Foundation. The collaborative campaign welcomes the participation of other engineering organizations.

“

“EVERY COMMUNITY DESERVES RELIABLE INFRASTRUCTURE—IT'S KEY TO THE QUALITY OF PEOPLE'S LIVES. THAT'S THE BEAUTY OF THE "WHAT'S IN MY BACKYARD" INITIATIVE; WE UNITE PEOPLE WITH A COMMON DESIRE TO MAKE A DIFFERENCE, IMPROVE INFRASTRUCTURE AND HOPEFULLY SET IN MOTION A RIPPLE EFFECT.

—Clare Haas Claveau,
CECorps Program Director, EWB-USA

POWERFUL PARTNERSHIPS:

Help End Poverty, Promote Peace and Protect the Planet

We pledge to use our extensive resources to make a positive global impact and join others in contributing to and measuring our collective results.

Measuring Up

The 2030 Agenda for Sustainable Development, adopted by all United Nations Member States in 2015, provides a shared blueprint for peace and prosperity for people and the planet, now and into the future. At its heart are 17 Sustainable Development Goals (SDGs),

which are an urgent call to action for all countries. This shared agenda mobilizes action across sectors and across the world, allowing the international development community to track our collective progress.

This year we mapped our work to reflect our efforts and contributions to

advancing nine areas of the SDGs. In the process, we also improved our methodology for measuring and reporting project outcomes, evaluating lessons learned, and sharing our impact.

Our work will advance nine of the UN's Sustainable Development Goals.



Our Financial Story

EWB-USA's partners invest in our impact. Through their generous contributions, we're able to make a real difference in people's daily lives. From our community partners to our corporate partners, we stand united in the shared belief that engineers have the power to change the world.

Statement of Financial Position—2018

Assets

Current Assets

Cash and Cash Equivalents	\$3,983,440
Investments	2,023,036
Contributions and Grants Receivable	3,585,183
Membership Dues Receivable	77,535
Prepaid Expense	158,575
Project Advances	225,257
Funds held on behalf of EWB-I	252,107
Property & Equipment (Net)	185,091
TOTAL ASSETS	\$10,490,224

Liabilities

Current Liabilities

Accounts Payable & Accrued Expenses	\$320,168
Agency Liability	252,107
Deferred Revenue	77,545
TOTAL LIABILITIES	\$649,820

Net Assets

Unrestricted	\$1,131,039
Restricted	8,709,365
TOTAL NET ASSETS	\$9,840,404
TOTAL LIABILITIES & NET ASSETS	\$10,490,224

Our Financial Story

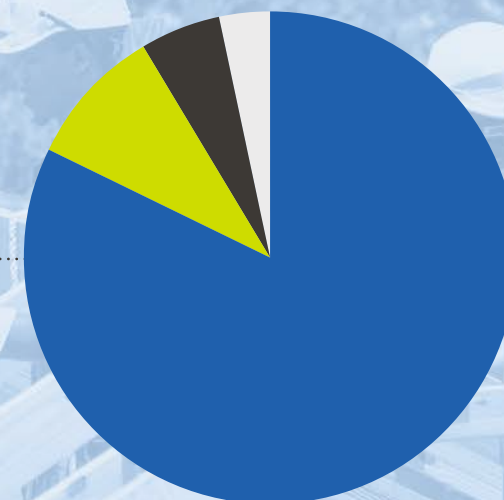
Statement of Activities—2018

Support & Revenue	Unrestricted	Temporarily Restricted	Total
Contributions & Grants	\$5,178,099	\$5,064,672	\$10,242,771
Membership Dues	327,735	-	327,735
Chapter Fees	67,972	-	67,972
Conference Revenue	151,010	-	151,010
In-Kind Project Mentor Contributions	4,320,000	-	4,320,000
Investment Return	45,329	-	45,329
Other Income	24,647	-	24,647
Net Assets Released from Retrictions	1,781,364	(1,781,364)	-
TOTAL SUPPORT & REVENUE	\$11,896,156	\$3,283,308	\$15,179,464

Expense

Program Services	9,071,547	-	\$ 9,071,547
Education	364,936	-	\$ 364,936
General & Administrative	558,478	-	\$ 558,478
Fundraising	1,022,445	-	\$ 1,022,445
TOTAL EXPENSES	\$11,017,406	-	\$11,017,406

Change in Net Assets	\$ 878,750	\$3,283,308	\$4,162,058
Net Assets (Beginning of Period)	252,289	5,426,057	5,678,346
NET ASSETS (END OF PERIOD)	\$ 1,131,039	\$ 8,709,365	\$ 9,840,404



- Program Services: 82.3%
- Fundraising: 9.3%
- General & Administrative: 5.1%
- Education: 3.3%

Our Capacity Builders

Corporate Partners

\$500K+



\$200K+



\$100K



\$50K



\$25K



\$10K



Our Capacity Builders

On behalf of our volunteers and all the communities around the world that partner with EWB-USA, we thank and recognize the individuals who gave \$1,000 or more to strengthen our capacity to engineer change.

\$200K+

Anonymous

Joe Adams & Pat Habel

\$25K-\$49,999

John and Linda MacDonald Foundation

Stevens Family Memorial Gift

\$10K-\$24,999

Anonymous

Chambers Family Foundation

Chris Jeske

Musa and Tom Mayer Charitable Fund

Red Mountain Fund

The 214 Philanthropic Foundation Inc.

The Don Yoder Foundation

\$5K-\$9,999

Anonymous

Autodesk, Inc.

Robert & Virginia Bayless

Dave Cook, LG, CPG

Andrew Dsida

DTE Energy

GPK Foundation

Linda Lannen

Mimi's Miracles

Bruce Nieman

Francis Preli

Protection Engineering Consultants

Robert Sardis

Gregory Sauter

Jennifer Sereno

Don & Chris Stevens

The Bill/Donna Dehn Charitable Fund

The Douglas C Beaton Family Foundation

The Thomas P. Waters Foundation

The Tomeo Family Charitable Fund

Norman Winn

The Cornerstone Society

The Cornerstone Society recognizes those individuals who have chosen to leave a lasting charitable legacy by including EWB-USA in their will, trust or estate plan.

Vilas & Ingrid Mujumdar

Michael & Catherine Paddock

Tyler Palmer

Bob Reynolds

Norman L. Winn

Our Capacity Builders

\$2K-\$4,999

Anonymous (3)
Alice Rowan Swanson Foundation
Basalt Foundation Inc.
Kathy Caldwell and Ron Cook
Jody Debs
Jeffrey & Elizabeth Diercks
Christopher & Jennifer Dunn
David England
Geosyntec Consultants
Carolyn & Bernard Hamilton
John Harding Family Foundation
Peter & Nancy Kasbohm

Kurtz Family Foundation
Patricia Kutzmann
Steve and Cathy Leslie
Daniel Mageau
Michael Magill
Matrix Technologies
Roy & Betty Mayfield
Morgan Charitable
John Morris
Holly Neber
Ralph Noistering
Jacqueline & John O'Brien

Patrick Engineering Inc
Chris Reseigh
Rudy & Alice Ramsey Foundation
John Spyhalski
St. Mary's High School
SynTerra
The Fuller Family Charitable Fund
Wade Trim
Tim Wehrkamp
Mark Williams
Woodard & Curran Foundation
Leland & Marian Zeidler

\$1K-\$1,999

Anonymous (4)
2004 Carita Foundation, Inc.
Richard & Elizabeth Allen
Mark Anderson & Sysliene Turpin
Robert Andrews
Barbara Behrendt
Jeff and Lisa Bennett
Lawrence and Janet Bentley
Mr. & Mrs. T.G. Berk
Christopher Black
Isaac Brown
Laurie Burk
Burns & McDonnell
Phil & Judy Cagney
Cole Engineering Solutions PSC
John Colodny
Spencer Commons & Martha Gates
Russell Cox
Matthew Crockett
Daniel Duong
Bernadette P. and Thomas N. Farris
Leroy Fingerson
Steven & Robin Flannery
Kenneth Gebhart & Rhonda Reed-
Gebhart

Dakota Gibbs
Thomas and Susannah Graedel
Scott & Barbara Grainger
Hans & Doris Grunwald
Amanda Harris
Jeffrey Hunter
Jon Hurt
Robert Hutson
Leah Jamieson
JPMorgan Chase Foundation
Amy Kaczmarowski
Hugh & Urling Kingery
Kathy Kirschner and Bob Novak
Charitable Fund
LeeAnne Lang
Paul Leonard
Dan & Laura Liotti
Duncan & Joan Lobban
Willem Mast
Patricia McClearn
David Mongan
Vera Nigrin
Jacqueline Obrien
Ogino Charitable Contribution Fund
Omnicom Capital Inc.

Paul Prusky and Steven Prusky
Trust
Petretti & Associates, LLC
Roberta Quiat
Michael Ross
Rummel, Klepper & Kahl, LLP
Sangree Family Foundation
Rich & Elizabeth Schiferl
Charul & Vimal Shah
Deborah Shust
William and Susan Stannard
John H E Stelling, PE, QEP
John Stimson
Judith Stone
Milo Taylor
The Brook Family Foundation
The Cheryle Sullivan MD Charitable
Fund
Joshua Watson
Welch Mechanical Designs, LLC
Dustin Wells
WSP Foundation Inc.
Howard Zwiefel & Mary Kay Gobris

Bernard Amadei, Ph.D., P.E.

FOUNDER, ENGINEERS WITHOUT BORDERS USA,
UNIVERSITY OF COLORADO BOULDER

Joseph D. Adams, P.E.

Board President
STANTEC

Kathy J. Caldwell, P.E.

Past Board President
CALDWELL COOK & ASSOCIATES

Jody Debs

Board President Elect
HDR, INC.

Thomas Farris, Ph.D.

RUTGERS SCHOOL OF ENGINEERING

Diana Hasegan

OSBORN CONSULTING, INC.

Jon Hurt, P.E.

ARUP

Leah Jamieson

PURDUE UNIVERSITY

Natasha Koermer

MITRE

Catherine A. Leslie, P.E.

EXECUTIVE DIRECTOR,
ENGINEERS WITHOUT BORDERS USA

Christopher Lombardo, Ph.D.

HARVARD JOHN A. PAULSON SCHOOL OF
ENGINEERING AND APPLIED SCIENCES

Linda McGoldrick

Treasurer
FINANCIAL HEALTH ASSOCIATES
INTERNATIONAL

Bruce Nieman, P.E.

DTE ENERGY

Jacqueline O'Brien

ARCONIC FOUNDATION

Brian Reilly, P.E.

BECHTEL CORPORATION

Donald R. Stevens, P.E.

BLACK & VEATCH CORPORATION

**Robert D. Stevens Ph.D., P.E.,
F.ASCE**

ARCADIS

Our Board of Directors
