

2017-2018 Annual Report



On a “normal” day, I pass over many bridges and give them very little thought. Only the threat of flooding brings them to my attention. Perhaps that’s a sign of a good bridge – reliable, unassuming, steady, barely noticed.

If we do think of bridges, we first think of them as connecting **places**. However, a broader perspective would see them as connecting **people** and would also acknowledge that they come in forms beyond physical structures; organizations, technologies, even individuals can serve as bridges. Please allow me to highlight some of my favorite bridges within the Collaboratory this past year...

- **Project Reviews.** Also known as “MVPs”, these formal project report sessions connected the work of Messiah students to over 100 professionals for review, critique, encouragement and advice. We repeated this process 79 times this past academic year. While these reviews solicited “extra” work from our teams, they connected us to our clients, communities and those who can give good input to our work.
- **Discipleship Community.** Every Monday evening, Collab Discipleship Community meetings connected 50 – 80 students to the “why” behind the what we do – a God who loves us with a Crazy Love and invites us to join Him in His kingdom work.
- **Early Adopters.** The Collaboratory provided a place for 81 first- and second-year students, from 19 different majors, to make meaningful connections to upperclassmates and advisors. These relational bridges support student retention and are critically important to developing future leadership.
- **Cross Functional Teams.** Twelve Collaboratory projects involved students from more than one major. While it is certainly important to dive deep into one’s discipline, much of life involves understanding different viewpoints, expressing our own convictions while also incorporating wisdom from others.
- **Cross-Cultural Teams.** The Collaboratory values long-term relationships with the clients we serve. Collaboratory projects focused in 14 different countries, created bridges of cross-cultural learning and understanding for Messiah students and advisors.

We are extremely thankful for the good work that God has prepared for us to do as part of the Collaboratory and believe a strong foundation is being built, supporting a lifetime of Christian service. If you are led to join us in this work, please contact us! We would love to cross that bridge together.

Doug Flemmens

Director, The Collaboratory for Strategic Partnerships and Applied Research at Messiah College

MISSION

The Collaboratory, at Messiah College, is a center for applied research and project-based learning, in partnership with client nonprofit organizations, businesses, governments and communities in our region and around the world. Areas of engagement include science, engineering, health, information technology, business and education. Our two-fold mission is:

- To foster justice, empower the poor, promote peace and care for the earth through applications of our academic and professional disciplines
- To increase the academic and professional abilities of participants, their vocational vision for lifelong servant-leadership and their courage to act on convictions

VISION

Increasing hope and transforming lives through education, collaboration, innovation and service.

IDENTITY

The Collaboratory is an organization of students, educators and professionals affiliated with Messiah College. We are Christians who aspire to obey the instructions of our Lord and Savior Jesus Christ, to love neighbors as ourselves and to share his Gospel. As God enables us to serve others today, we seek to grow as disciples of our Lord and Savior Jesus Christ, to serve as God’s stewards over the resources of our academic disciplines and to bear witness to the good news of the Kingdom of God.

STAY CONNECTED

WEB: messiah.edu/collaboratory

EMAIL: collaboratory@messiah.edu

BLOG: messiahcollaboratory.wordpress.com

facebook.com/Collaboratory

instagram.com/MCCollaboratory

twitter.com/MCCollaboratory

2017-2018 COLLABORATORY LEADERS

- Doug Flemmens, director
- Jessica Kline, student director
- Lori Zimmerman, program manager
- Wei Yee Ng, student program manager
- Dereck Plante, engineering project manager
- Lily Gaudreau, assistant student director
- Shannon Walker, administrative assistant



PROJECT HIGHLIGHTS



1. DISABILITY RESOURCES/BIOMEDICAL

- **Rapid Orthotics for CURE Kenya.** We continue our close partnership with CURE International to develop a low-cost, 3-D printing system for orthotics. Scanner, software, and printer were previously delivered to Kenya through both remote computing and a site team trip in May.
- **Prosthetic Knee for Burkina Faso.** The Collaboratory Prosthetic Knee team designed, tested and delivered a working low-cost alternative to the Centre for the Advancement of the Handicapped in Burkina Faso. This design is able to be fabricated on-site using locally available manufacturing equipment and materials.



2. INFRASTRUCTURE

- **Nicaragua Bridge.** The Collaboratory joined forces with West Shore Free Church and Friends in Action International to serve the indigenous Rama people in Nicaragua by designing and constructing a robust concrete bridge for a new community the Rama are developing. Community members were very involved in the construction, learning enough to finish the construction that was delayed due to consistent rain. The Collaboratory also partnered with Messiah's AROMA sports ministry to share God's love through this community's love of baseball.
- **Paxton Ministries.** A Collaboratory team of civil engineers is partnering with Paxton Ministries in Harrisburg to help mitigate a storm water and sinkhole problem they are experiencing on their property. Not only did the team give Paxton Ministries good insight into possible options for the property, but they also joined the ministry by volunteering to assist the Paxton staff with small tasks to improve the buildings and grounds.
- **Landmine Neutralization.** The Collaboratory started a new partnership with the HALO Foundation to address the challenge of landmine neutralization. Within one semester, the team designed and concept-tested a unique incendiary device. HALO's initial field-testing in Afghanistan was so positive that they kept the Collaboratory prototype in order to quickly progress into the next round of testing.



3. WATER/ HEALTH

- In January, the Collaboratory Affordable Sanitation team traveled to a remote area of Ghana to work with World Vision to address the common sanitation issue of pit latrine collapse. This project tested alternative designs for pit latrine liners.

4. ENERGY

- The PV Solar team designed a system to power critical infrastructure for the Living Love Ministries orphanage in Kenya. Team members traveled to Kenya in May to install the system as well as to lay the groundwork for two future projects.



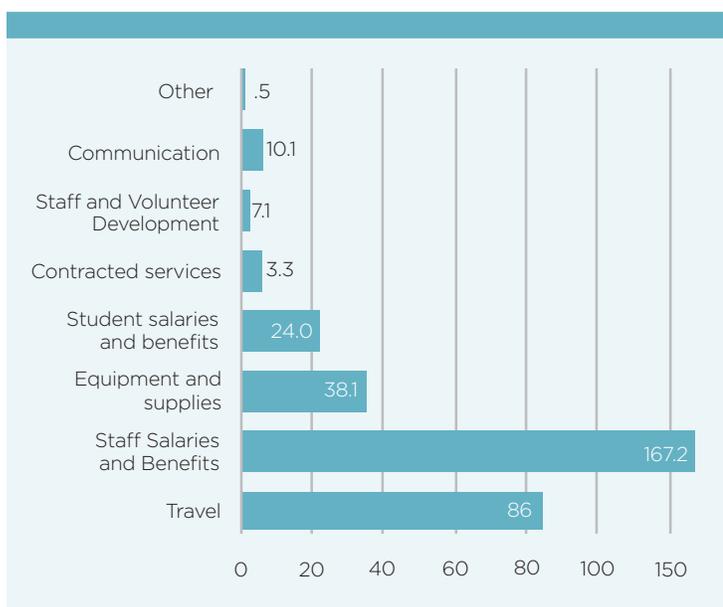
5. ADVANCEMENT

- We were blessed with a large cohort of students who are passionate about micro-finance, business training and empowering those in poverty. Over 24 students from 12 different majors came together to both revisit past work with the BIC Church of Zambia, and to push into the unknown, pursuing possible partnerships to serve the Saharawi refugee camps in Algeria.

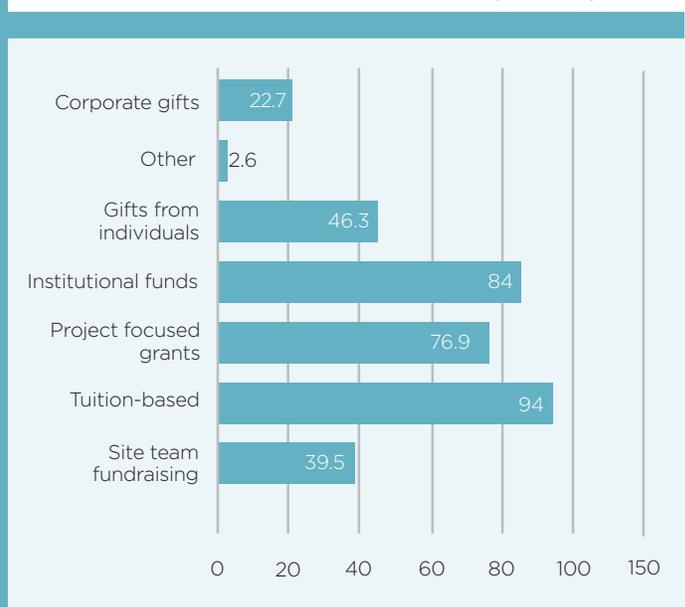


2017-2018 FINANCIAL OVERVIEW

TOTAL EXPENDITURE BREAKDOWN (1000s)



TOTAL REVENUE SOURCES (1000s)



Overall total expenditures: **\$336,339**

Overall total revenue : **\$366,048**

THANK YOU TO OUR INVESTORS AND PARTNER ORGANIZATIONS

TRANSFORMATION INVESTORS

Invests regularly in the Collaboratory up to \$500 per year

Bethany A. Blackwood
Daniel R. Dourte
Eric & Cheryl Jeschke
Kate E. Johnstone
William & Emily Jones
Carl & Winifred Knepper
David & Nancy Knight
Brittany A. Lighthall
Nathan & Naphtali Mitten
Nathanial & Jennifer Nichols
Timothy & Lisa Roesler
Richard & Kathleen Stuebing
Deborah E. Tepley
& Luke Jackson
Paul & Kimberly Tucker
Leslie S. Weiland

CORNERSTONE INVESTORS

Invests in the Collaboratory \$500 - \$999 per year

Michael & Rebecca Brown
Thomas & Kathy Burson
Andrew & Michele Clancy
Curtis & Laura Edgin
DeWitt & Lois Engle
Craig & Angela Flemmens
Michael & Luann Foster
Stephen & Krista Frank
Anthony & Carolyn Hahn
Nancy Lenhart-McLellan
Garrick & Virginia Sauder
Earl & Elisabeth Swope
Jonathan & Michelle Wales
Douglas & Kathleen Wewer

MAJOR INVESTORS

Invests in the Collaboratory more than \$1000 per year

Daniel & Karisa Barlow
Kenneth & Polly Ann Brown
Nathanial & Jacqueline Diedrich
David German
Keith & Carol Good
Glenn & Kelly Heisey
Gregory & Stacie Holmes
John & Nancy Howell
Robert & Susan Kline
Gary & Gloria Lebo
John Meyer
Constance Oberholser
Richard & Audry Rutt
Dallas & Faye Shelly
Roger & Joann Sider
Clayton & Elizabeth Swartz
Leif N. & Carol Uptegrove
David & Ariela Vader
David & Nancy Vader
Donald & Brenda Waardenburg
Rachel Wenger
Gerald & Ruth Wolgemuth

MAJOR FUNDING PROVIDED BY

American Endowment Foundation
CDM Smith
Dillsburg Brethren in Christ Church
Gannett Fleming Inc.
General Electric Foundation
Glenview Alliance Church
Lebo & Reed Real Estate Partnership
Leidos
Presbyterian Church in America Foundation
Sight and Sound Ministries
United Service Foundation
World Vision Inc

ADDITIONAL CORPORATE FUNDING

Highmark Blue Shield
CS Davidson Inc.
Plymouth Alliance Church Inc
McMahon Associates Inc.
Tyco International

PARTNER ORGANIZATIONS

Access Development/Water4
Cary Cupka
Centre for the Advancement of the Handicapped
CURE International
Dark Moon Development
Dr. Nancy Patrick
Engineering Ministries International (EMI)
Eric Shoemaker/Ability Prosthetics and Orthotics
Forward Edge/Trigo y Miel
Friends in Action
HALO Trust
Harrisburg Public Schools
Institute of Affordable Transportation
Living Love Ministries: Children's Home
Macha Research Centre of Zambia
New Tribes Mission
Office of Disability Services, Messiah College
Open Door Development/SIM
Paxton Ministries
Rider Musser Development
Sawyer Products
Sight and Sound
Water Mission
Wheels for the World/Joni and Friends
World Vision
Youth With a Mission Ships / Rio Missions
Zambia Brethren in Christ Church

GIFTS IN KIND

- Donated office and work space from Messiah
\$105,000
- Estimated student volunteer service value
\$64,445 (8,889 hours)*
- Estimated professional advisor volunteer service value
\$196,000 (2,800 hours)
- Estimated faculty support value
\$70,000

GRAND TOTAL:
\$435,445

*Does not include hours spent by students earning course credit.
Total student hours = 22,967.



THE COLLABORATORY FOR
STRATEGIC PARTNERSHIPS AND
APPLIED RESEARCH

One College Avenue Suite 3034
Mechanicsburg PA 17055

Address Service Requested

DOKIMOI ERGATAI



ABOUT US

STUDENT MEMBERS PER SECTOR

Advancement	10
Biomedical	40
Communications	9
Disability Resources	18
Economic Empowerment	24
Energy	25
Health	0
Infrastructure	32
Sustainability	9
Transportation	13
Water	45
Total student members	225

COUNTRIES WHERE WE SERVE

Afghanistan	Mexico	United States
Burkina Faso	Middle East	Vanuatu
Ghana	Nicaragua	Zambia
Honduras	Pakistan	Zimbabwe
Kenya	Panama	

CONTACT US

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