

# Annual Report 2017

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# Table of Contents

Letter from the Chair and President & CEO.....	ii
Goal 1   Be Critical Thinkers .....	1
Goal 2   Develop Purposeful Partnerships.....	3
Goal 3   Nurture Pluralism.....	5
Goal 4   Advance Public Discourse.....	7
Goal 5   Cultivate Financial Stability.....	9
Statement of Financial Position .....	10
Statement of Activities .....	11
The 2017 NewKnowledge Team.....	12
2017 Collaborators & Partners .....	13
Publications .....	14

Cover Photo © New Knowledge Organization Ltd.



## **New Knowledge Organization Ltd.**

*Facing Society's Grand Challenges Head On*

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*NewKnowledge is a non-profit research institute working to empower change-makers with interdisciplinary social science research so they can create a society where all people live to their greatest potential in harmony with a thriving biosphere*

## Letter from the Chair and President & CEO



Judith Koke  
2016 – 2018 Chair, Board of Trustees



John Fraser, PhD AIA  
President & CEO

This annual report represents the work of an incredible team of people whose dedication to our mission is starting to pay dividends. When we were founded six years ago, we imagined a new type of non-profit that could help organizations that seek to make the world better through sound social science research. A bit of a tall order, but today we can see that our vision was serving a pressing need.

By 2017, we found ourselves working across the US and new project partnerships in Canada and the UK. We had staff located in California and Washington DC, areas where we are growing a number of projects with long-term partners.

Last year, we focused on stability with new board committees, a new strategic plan, refined internal management systems, and a staff who laid the foundation for growth. We reaped the benefits of that work securing our first major multi-year federal grant and an expanded core staff, with many larger projects.

As we looked back on our 2017 fiscal year, we were pleased to note that the majority of our work is built on continuing partnerships. In 2014, the Harvard Business Review published a paper on corporate partnerships, noting that the primary reason for failure was “competitive self-interest, a lack of a fully shared purpose, and a shortage of trust”<sup>1</sup>. We have found that our continuing work is based on a model that positions our efforts as part of a collective and an ecosystem. Rather than treating each project as a stand-alone effort, we’ve tried to find bridges between projects to help all of our partners build on one another’s success. We believe our growth and stability can be attributed to the pluralistic community interested in our work.

We look forward to building new partnerships so our research can help more people live life to their fullest in harmony with a thriving biosphere.

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<sup>1</sup> Nidumolu, R., Ellison, J., Whalen, J., & Billman, E. (2014). The collaboration imperative. *Harvard business review*, 92(4), 76-84.

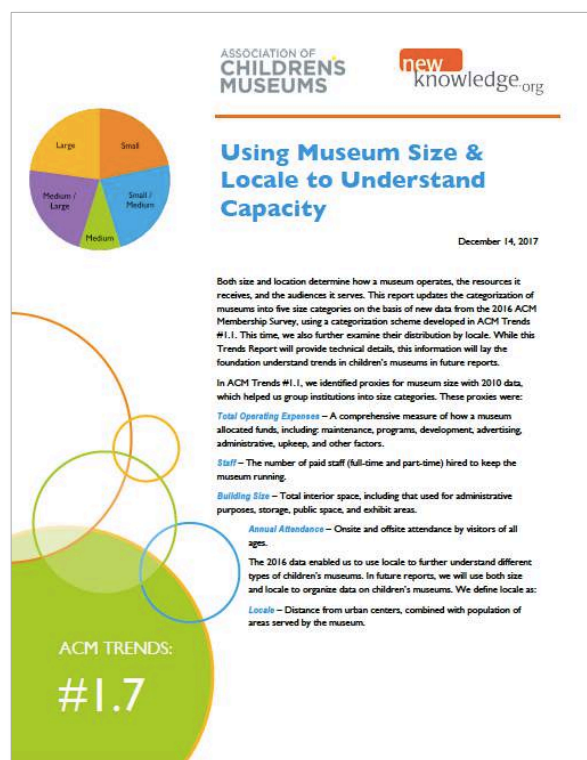
## Goal 1 | Be Critical Thinkers

*Challenge the status quo by analyzing, assessing, and reconstructing ideas about social challenges, turning them into actionable research questions. Through rigorous, self-aware, and flexible habits of mind, engage with the mechanisms that can produce social change solutions.*

Non-profits are often cornerstones of their communities, offering many benefits to their constituents. Likewise, professional associations function as the cornerstones of non-profits. They advocate for their field, provide opportunities for professional development, and create forums for sharing ideas. The work of professional associations is critical, but often overlooked in research.

In 2017, we partnered with the Association of Children's Museums (ACM), leader of the international children's museums field with over 400 member institutions. With ACM, we wondered how we could use research to inform the direction for the field of children's museums. We dove into over a decade's worth of data, exploring biannual institutional member surveys and studies on the children's museums' workforce, comparing that information with national statistics on a range of issues.

To tell the story of the children's museums data, we started publishing the ACM Trends series, a string of brief, monthly reports discussing issues important to the field. Together with ACM, we thought hard about what children's museums professionals might benefit from, and what they may take for granted. Trends reports looked at, for instance, how to classify children's museums by size and how size affects institutional operations. Another report studied the children's museums workforce, and the significant economic impact of volunteers. This research has jumpstarted new conversations in the children's museum field, and is beginning to shape innovative approaches to museum work.



### Spotlight: Brooklyn Historical Society

With the Brooklyn Historical Society (BHS), we studied how one institution can be a cornerstone to its community. As BHS planned for the new *Waterfront* exhibition, we explored how the museum can be a catalyst for a discussion about the inspiring and sometimes difficult history of the borough. Our research guided BHS's design of the exhibit to be a place where children and adults can encounter and have dialogue about diverse perspectives on history.



With Brooklyn Historical Society, NewKnowledge studied how the history of New York City's waterfront can provide a platform for intergenerational learning and community dialogue. Photo © Brooklyn Historical Society.

## Goal 2 | Develop Purposeful Partnerships

*Collaborate with change-makers who have the ability and potential to tackle deep societal issues. Partner with scholars whose ideas can help make that change possible.*

Intergenerational poverty remains one of the most pernicious and intractable challenges that face our society. With one in five people in developing regions living on less than \$2 each day,<sup>2</sup> ending poverty is first on the United Nation's list of Sustainable Development Goals. Like many others, we have wondered how learning and media can be used as a tool to reduce poverty. We ask, *"what makes media effective at getting large groups of people to take action on this issue?"*

In 2017, we started a new partnership with Girl Effect, an international non-profit that works to strategically break the cycle of intergenerational poverty for girls around the world by identifying barriers to information and supporting agency for girls. To accomplish this objective, Girl Effect builds youth brands and mobile platforms, engaging young people around the world to empower girls to change their lives.

NewKnowledge explored a mountain of social science literature to understand how organizations like Girl Effect could use digital tools to empower girls, where there are gaps in research, and opportunities for innovation. We studied research on youth psychological development, sociological theories of poverty persistence, and anthropological research on cultural evolution.

This partnership prompted new thinking about how to operationalize Girl Effect's strategy with digital tools, and how they anticipate knowledge, attitude, and behavior change occurring as a result of their work. Girl Effect, with their ability to reach millions of young people through their digital products, also has the capacity to leverage this research and

synthesis. Working alongside each other, we felt the power of a strategic partnership, where we can tackle deep issues better together rather than apart.

In the following year, Girl Effect and NewKnowledge collaborated on a synthesis of research on tipping points in the context of cultural change. We studied sociological and psychological perspectives on community behavior change, and how community leaders and early adopters can be allies. Our team also went on to co-present the study of digital tools for behavior change on an international webinar, hosted by Devex. This presentation, called *From Browsing to Behaviour Change*, saw an audience of about 250 leaders from a wide range of positive social impact organizations. The companion report, along with the webinar recording, continues to be available online.<sup>3</sup>

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<sup>2</sup> United Nations (n.d.) Accessed June 25, 2018 at <https://www.un.org/sustainabledevelopment/poverty/>

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<sup>3</sup> <https://www.girleffect.org/stories/from-browsing-to-behaviour-change/>



In collaboration with Girl Effect, we studied how digital technologies empower young women. Photo © Girl Effect

## Goal 3 | Nurture Pluralism

*Invest in a pluralistic NewKnowledge community with broad academic, life, and work experiences that contribute diverse perspectives to the problems we explore. Support the personal and professional growth of our entire learning community.*

In 2017, we published a first-ever nationwide census study of environmental educators as part of the EPA-funded EECapacity initiative. We discovered there are 3.9 million people who identify as environmental educators in the United States, a number far exceeding traditional estimates. Of those 3.9 million people, 47% identify as racial and ethnic minorities, indicating those groups are over-represented in the field compared to the general population. Yet, professional circles downplay the prevalence of minority voices, reinforcing practices and approaches that reflect a homogeneous human relationship with nature.

The census study has the prospect of helping the environmental education field continue to embrace pluralistic perspectives and priorities. In fact, our work on the entire EECapacity project laid the foundation for our approach to Summit Seekers, an initiative that fosters inclusion and engagement of communities of color with traditional outdoor recreation and promotes environmental stewardship. Summit Seekers is a partnership of the National Park Foundation, Appalachian Trail Conservancy, Latino Outdoors, Outdoor Afro, Groundwork USA, and the Student Conservation Association. The partnership developed training events to engage leaders and staff at bicoastal urban sites in the initiative.

Summit Seekers' work is meaningful in the context of national land use. While large-scale urbanization continues, the United States is still home to over 950,000 square miles of federal lands set aside for conservation and public recreation.

This is a lot of nature, which environmental leaders can help the public access, use, and care for.

Our work with Summit Seekers gave us the opportunity to use our own pluralism practices, along with our research on diversity to support inclusion. We supported the partnership in their efforts to collaborate by emphasizing mutual respect for multiple types of expertise, interests, and histories. We provided the space and time for reflection in interviews with leaders and staff from each organization, which helped them consider both the shared priorities and their own organization's work.

Our study showed that the Summit Seekers partnership helped the organizations develop close relationships and together advance a common goal of enabling more equitable engagement with public lands. Our reflective evaluation process and reporting enabled the group to authentically learn about each other's work philosophy to move the partnership forward. Leaders at the training expanded their conceptions of diversity to include not only race and ethnicity, but also gender and sexuality identities. A sense of safety for all individuals as they connect with the outdoors emerged as a shared priority as well. Our partners intended to distribute our final report at their own organization's annual meetings.

We will continue studying how diverse communities, environmental educators, and traditional land stewards work together to enable equitable access to nature. We are excited to see increasingly pluralistic conceptions of nature experiences, valuing all communities' needs and interests.





Leaders discuss equitable access to nature in Summit Seekers trainings. Photo credit: Morgan Valdivieso

## Goal 4 | Advance Public Discourse

*Be a trusted voice that shares clear, data-driven communications to help change-makers understand what they can and should do.*

Opioid abuse is now prevalent throughout the United States, with 91 people dying from opioid overdoses each day. Even if you and your family haven't encountered problems with opioids yet, it's likely that you know someone who struggles with addiction. Opioid addiction is not simply an individual or family challenge – this problem affects our communities' ability to thrive. Health care workers, childcare systems, and even our ecosystems bear the weight of this epidemic. Meanwhile, the public has varying understanding of this complex problem.

We're working with PBS NewsHour to study how public media affects knowledge of and attitudes towards these issues. In 2017, PBS NewsHour production teams created America Addicted<sup>4</sup>, a transmedia experiment that tells the story of opioid abuse in the United States in a decentralized, non-linear way. This series featured a range of formats, including traditional broadcast pieces and online articles, livestreams on Periscope and Facebook Live, and interactive Twitter chats, for a total of over 200 videos and posts on nearly a dozen online platforms.

This project is an opportunity to think across our media and health and wellness pillars. As opioids are a community-level issue, America Addicted focused primarily on collective wellness and impacts, in addition to treatment options for individuals. Relevant and well designed communications about community health and wellness are critical to helping a wide range of people across many demographics. With a social science lens, our work seeks to understand how

people can be equipped to improve the health of all Americans.

With funding from the National Science Foundation and additional support from the National Institutes of Health, we surveyed 800 people from rural, suburban, and urban areas across the US to understand personal connections to opioid abuse, news they've consumed about the epidemic, and perceptions or misconceptions about the problem. We also asked 200 of those people to view parts of the America Addicted series, which allowed us to explore public responses to the transmedia formats, the relevance of the narrative on opioid abuse issues, and how members of the public identify as science people. We found that the less news people got about the epidemic, the more likely they were to say they would use medical information sources (e.g. a doctor, WebMD, the CDC) to learn about the problem – and the less likely to go to more typical journalistic sources (e.g. newspapers, broadcasters). This difference in information source is an important distinction for public health officials to know.

While the opioid crisis can be overwhelming, our research shows that different formats and sources of information can all play a role in informing the public. Our research team will publish these studies in peer-review journals to equip researchers and health leaders with the information they need to guide communities to wellness.

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<sup>4</sup> <https://www.pbs.org/newshour/features/america-addicted/>



We studied public reactions to PBS NewsHour's America Addicted series, which explores the opioid abuse epidemic.  
Photo © PBS NewsHour / Mike Fritz

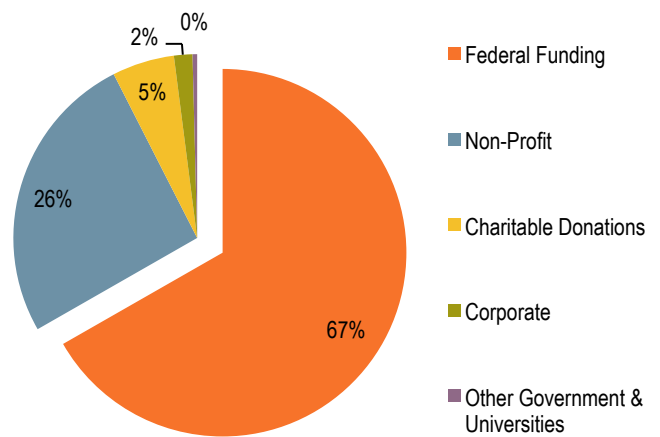
## Goal 5 | Cultivate Financial Stability

*Develop a stable, resilient funding scheme and work process able to ensure the longevity and sustainable fiscal health of the organization. Maintain ongoing vulnerability assessments, refine policies, and monitor growth strategies.*

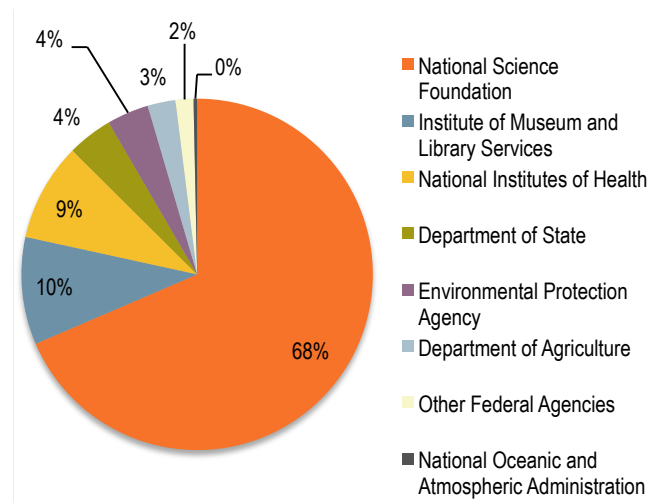
This year NewKnowledge witnessed growth of 26.9% over our 2016 fiscal year, primarily attributed to a substantial increase in federal funding that can be attributed to our first direct federal grant from the National Science Foundation. As we negotiated our agreement, we were pleased to demonstrate the strength of our financial management program. Today, we have the highest rating for financial management from Guidestar and have completed six consecutive years since our founding with an unqualified report from our auditors. While 2017 saw our management costs rise temporarily to cover the cost of our move to a new office, this one-time cost does not reflect overall efficiencies we have achieved with program performance.

The increase in funding from federal sources also meant that we have now completed our first single audit, the federally mandated process for reviewing financial controls and management for federal funds. We are pleased to report that all of these processes were found to be in compliance with the generally accepted accounting principles.

Today, our funding is primarily multi-year grant funded projects, creating a stable base working to answer complex questions. The other notable change this year was a substantial increase in charitable donations, in-kind support for legal services, and a one-time substantial gift to furnish our new offices. As we experience growth, donations help us continue to increase our capacity to face society's grand challenges head on.



Sources of Revenue



Distribution of Federal Funding

## Statement of Financial Position

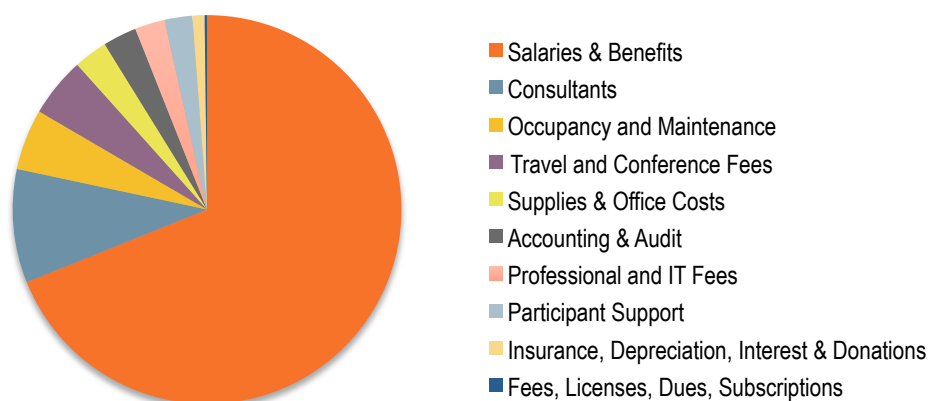
Year ended December 31, 2017, 2016, and 2015

<b>Assets</b>	<b>2017</b>	<b>2016</b>	<b>2015</b>
Cash	\$ 95,441	\$85,674	\$12,112
Contract service fees receivable	263,668	183,644	207,268
Prepaid expenses	11,240	5,963	2,103
Security deposit	24,375	15,000	15,000
Furniture, equipment & leasehold improvement	29,677	6,314	14,504
	<b>\$ 424,401</b>	<b>\$ 296,595</b>	<b>\$ 250,987</b>
<b>Liabilities and Net Assets</b>			
<b>Liabilities</b>			
Accounts payable and accrued expenses	\$ 93,055	\$ 50,597	\$ 56,427
Advance payable	—	—	17,854
Loan payable	—	775	54,288
Unearned revenue	—	36,021	23,700
Total Liabilities	<b>\$ 93,055</b>	<b>\$ 87,393</b>	<b>\$ 152,269</b>
<b>Net Assets</b>			
Unrestricted	\$ 331,346	209,202	98,718
	<b>\$ 424,401</b>	<b>\$ 296,595</b>	<b>\$ 250,987</b>

## Statement of Activities

Year ended December 31, 2017, 2016, 2015

<b>Revenue and Support</b>	<b>2017</b>	<b>2016</b>	<b>2015</b>
Contract service fees	\$ 1,420,941	\$ 1,171,520	\$ 1,048,537
Contributions in-kind	53,343	8,300	21,425
Contributions	29,347	13,876	8,993
Other income	11,647	65	4,735
<b>Total Revenue and Support</b>	<b>1,515,278</b>	<b>1,193,761</b>	<b>1,083,690</b>
<b>Expenses</b>			
Program Services	\$ 872,730	764,885	\$ 805,371
Supporting Services			
Management and general	448,861	255,572	239,109
Fundraising	71,543	62,820	78,034
<b>Total Supporting Services</b>	<b>520,404</b>	<b>318,392</b>	<b>327,143</b>
<b>Total Expenses</b>	<b>\$ 1,393,134</b>	<b>\$ 1,083,277</b>	<b>\$ 1,132,514</b>
Change in Net Assets	122,144	110,484	(48,824)
<b>Net Assets</b>			
Beginning of Year	209,202	98,718	147,542
End of Year	<b>\$ 331,346</b>	<b>\$209,202</b>	<b>\$ 98,718</b>



Distribution of Audited Functional Expenses

## The 2017 NewKnowledge Team



### Staff

Nezam Ardan, M.A., Researcher  
Lynn Battaglia, M.A., Accounting Manager  
Jena Barchas-Lichtenstein, Ph.D., Researcher  
Joanna Laursen Brucker, M.A., Programs Manager  
Elizabeth Danter, Ph.D., Researcher  
Jennifer Dixon JD, MLIS, Librarian \*  
Ian Dougherty, Chief Financial Officer  
Kate Flinner, M.A., Manager of Communications  
John Fraser, Ph.D., AIA, President & CEO  
Sophie Gloeckler, Research Associate  
Rupu Gupta, Ph.D., Researcher  
Susan Hannah, M.Phil, Researcher \*  
Olivia Killingsworth, Finance Team  
Nicole LaMarca, Research Assistant  
Rebecca Norlander, Ph.D., Researcher  
Shelley Rank, M.A., Researcher  
Su-Jen Roberts, Ph.D., Researcher  
Tawnya Fay Switzer, Writer  
Laura Tietjen, M.A., Researcher & Administrator  
John Voiklis, Ph.D., Researcher

Hiershenee Bhana, GEDI Research Fellow

Julie Aromi, Intern

Haley Crim, Intern

Shaun Field, Intern

Ariel Lombardo Aghishian, Intern

Allison Mason, Intern

### Board of Trustees

Judith M. Koke, 2016 – 2018 Board Chair, Audit Committee Chair

Carolyn Gray, Vice-Chair

Jenna Hayes, J.D., Secretary

Leonard P. Singh, Treasurer, Finance Committee Chair

Paul Boyle, Ph.D., Director, Research Integrity Officer

Julia Mair, Director

Wednesday Martin, Ph.D., Director

Andrea Turner, J.D., Director

John Fraser, Ph.D., AIA, President & CEO (*ex officio*)

### Research Fellows

Simon Bird, Ph.D.

James Danoff-Burg, Ph.D.

Sharon Danoff-Burg, Ph.D.

Ed Greene, Ph.D.

William Lynn, Ph.D.

Kin Kong, Ph.D.

Audrey Kremer, Ph.D.

Kenneth Lo, M.U.P.

Kris Morrissey, Ph.D.

Christopher Nuñez

Brian J. Plankis, Ed.D

Christina Shane-Simpson, M.A., Ph.D.

Beverly K. Sheppard, M.A.

Shelley Stern, LCSW, Ed.M.

\* At mid-year, Jen Dixon and Susan Hannah transitioned to Research Fellow positions.

## 2017 Collaborators & Partners

American Library Association – Public Programs Office  
American Alliance of Museums  
Amnesty International  
Appalachian Trail Conservancy  
Association of Children’s Museums  
Association of Zoos and Aquariums  
Babbel  
The Brooklyn District Attorney’s Office  
Brooklyn Historical Society  
Butler University – Center for Urban Ecology & Department of Dance  
Children & Nature Network  
Children’s National Medical Center  
Columbia University  
Cornell University – Civic Ecology Lab  
COSI  
DIYdoc  
Earth Rangers  
Environmental Protection Agency – EECapacity  
Frameworks Institute  
FINRA Investor Education Foundation  
Garabay Group  
Girl Effect  
Girl Scouts of Greater New York  
Groundwork USA  
Harwood Institute  
Hispanic Information Television Network (HITN)  
Indiana University Purdue University Indianapolis –Center for Urban Health  
John Wiley & Sons Inc. / Curator: The Museum Journal  
Latino Outdoors  
Mary Miss Studio & City as Living Laboratory  
Museum of Science and Industry  
National Network for Ocean & Climate Change Interpretation  
National Parks Foundation  
National Wildlife Federation  
New England Aquarium  
New York Hall of Science  
Norman Lear Center, USC Annenberg School of Communication and Journalism  
Northeast Big Data Hub  
National Oceanic and Atmospheric Administration: Communication, Education and Engagement Division  
North American Association of Environmental Education  
Oregon Zoo  
Oregon State University  
Outdoor Afro  
Pennsylvania State University  
Poets House  
PCI Media  
Reconnecting to Our Waterways, Indianapolis  
Second Nature  
Seniors in Service  
Shoah Foundation  
Student Conservation Association  
Tampa’s Lowry Park Zoo  
TERC – EdGE: Educational Gaming Environments Group  
The daVinci Pursuit  
The Kinetic Project  
The Mara Partners  
The Nature Conservancy  
UL (Underwriters Laboratories)  
UNICEF  
University of California, San Diego  
University of California, San Francisco  
University of Rhode Island  
WETA / PBS NewsHour  
Wildlife Conservation Society



# Publications

## PEER-REVIEW & EDITORIAL PUBLICATIONS

Fraser, J. (2017). Ethics and the museum studies literature. *Curator: The Museum Journal*, 60(4), 391-393.

Fraser, J. (2017). Thinking about museum type. *Curator: The Museum Journal*, 60(3), 263-265.

Fraser, J. (2017). Honesty and self-determination. *Curator: The Museum Journal*, 60(2), 131-132.

Fraser, J. (2017). Editorial focus. *Curator: The Museum Journal*, 60(1), 5-6.

Geiger, N., Swim, J.K., Fraser, J. & Flinner, K. (2017) Catalyzing public engagement with climate change through informal science centers. *Science Communication* 39(2), 221-249.

Geiger, N., Swim, J.K., & Fraser, J. (2017) Catalyzing public engagement with climate change through informal science centers. *Creating a climate for change: Interventions, efficacy and public discussion about climate change. Journal of Environmental Psychology* 51, 104-116.

Gupta, R., Ardalan, N. & Fraser, J. (2017). The intergroup context of environmental education and approaches to facilitate collaboration. *Small Group Research* 48(4), 420-454. DOI 1046496417706416.

Swim, J., Geiger, N., Fraser, J. & Pletcher N. (2017) Climate Change Education at Nature-based Museums. *Curator: The Museum Journal* 60(1), 101-119.

## SELECT REPORTS & PUBLICATIONS

### EPA.060.064: EECapacity

NewKnowledge.org (2017). EECapacity Year 5: NAAEE Conference Evaluation. New Knowledge Publication #EPA.060.064.44. New York: New Knowledge Organization Ltd.

### NIH.066.077: SimLAB

LaMarca, N. & Brucker, J.L. (2017). Rapid Feedback Report: Surveys. New Knowledge Publication #NPO.066.077.16. New York: New Knowledge Organization Ltd.

Brucker, J.L. & Ardalan, N. (2017). Rapid Feedback: Classroom Observation. New Knowledge Publication #NIH.066.077.17. New York: New Knowledge Organization Ltd.

Brucker, J.L. & Dixon, J. (2017). Rapid Feedback: Teacher Group Discussions. New Knowledge Publication #NIH.066.077.18. New York: New Knowledge Organization Ltd.

Shane-Simpson, C., Fraser, J., Hannah, S. & Kong, K. (2017). MedLab Final Report, SIMLAB: Using Patient Simulation for Student Exploration of Community Health Issues. NewKnowledge Publication #NIH.066.077.19. New York: New Knowledge Organization Ltd.

Kong, K.C., Fraser, J., Brown, L., Carrizales, M., Hauser, M., Zohrob, D. & Bhana, H. (2017). MedLab: Literature Supporting Experiential Learning with Patient Simulators and Online Learning Tools. NewKnowledge Publication #NIH.066.077.20. Chicago: Museum of Science and Industry.

### NIH.100.098: PBS Health Literacy

Roberts, S.J. (2017). Topline Report: Story Feedback 1: Psychedelic Drugs and Mental Illness. New Knowledge Publication #NIH.100.098.01. New York: New Knowledge Organization Ltd.

Roberts, S.J. and LaMarca, N. (2017). Topline Report: Story Feedback 2: Brainwaves and Computers. New Knowledge Publication #NIH.100.098.02. New York: New Knowledge Organization Ltd.

Roberts, S.J. (2017). Topline Report: Interest in Health Science Topics and Reporting. New Knowledge Publication #NIH.100.098.03. New York: New Knowledge Organization Ltd.

Roberts, S.J. (2017). Year 1 Evaluation Report. New Knowledge Publication #NIH.100.098.04. New York: New Knowledge Organization Ltd.

### NIH.052.111: NNOCCI 2

Flinner, K., Dixon, J. & Fraser, J. (2017). Evaluative Frame of Mind Reading List. New Knowledge Publication #NSF.052.111.32. New York: New Knowledge Organization Ltd.

### NSF.097.115: I/CaLL

Norlander, R., Fraser, J., Swanson, S., Ardalan, N., Brucker, J., Flinner, K. & LaMarca, N. (2016). Art Experiences that Prompt Science Literacy. New Knowledge Organization Publication #NSF.097.115.07. New York: New Knowledge Organization Ltd.

Ardalan, N. & Shane-Simpson, C. (2016). ICaLL: Community Science Learning Growth. New Knowledge Publication #NSF.097.115.08. New York: New Knowledge Organization Ltd.

### NSF.100.183: Transmedia

Roberts, S.J. (2017). Topline Report: Story Feedback: TRAPPIST 1. New Knowledge Publication #NSF.100.183.03. New York: New Knowledge Organization Ltd.

Roberts, S.J., Norlander, R., Barchas-Lichtenstein, J. & Flinner, K. (2017). Y2 Transmedia Report. New Knowledge Publication #NSF.100.183.04. New York: New Knowledge Organization Ltd.

Roberts, S.J., LaMarca, N. & Mason, A. (2017). Y2 Transmedia Report Appendix. New Knowledge Publication #NSF.100.183.04-A. New York: New Knowledge Organization Ltd.

Barchas-Lichtenstein, J., Voiklis, J., Fraser, J., Flinner, K., Norlander, R. & Danter, E. (2017). Opioid Epidemic News Consumption. New Knowledge Publication #NSF.100.183.05. New York: New Knowledge Organization Ltd.

### NSF.022.184: STEM Matters

Gupta, R., Rank, S. & Fraser, J. (2017). National Surveys Overview: Focusing on Perceptions of Zoos and Aquariums. New Knowledge Publication #NSF.022.184.02. New York: New Knowledge Organization Ltd.

Rank, S., Gupta, R. & Fraser, J. (2017). Situating WZAM^3: An Overview of Previous Studies. #NSF.022.184.02. New York: New Knowledge Organization Ltd.

New Knowledge Organization. (2017). Year 1 Summary. New Knowledge Publication #NSF.022.184.05. New York: New Knowledge Organization Ltd.

### NSF.022.184: PBS STEM SRL

Roberts, S.J., Norlander, R. & Flinner, K. (2017). Year 2 Research & Evaluation Report: STEM Student Reporting Labs. New York: New Knowledge Organization Ltd.

Roberts, S.J. (2017). Year 2 Research & Evaluation Report: STEM Student Reporting Labs — Appendix. New Knowledge Publication #NSF.100.190.03-A. New York: New Knowledge Organization Ltd.

Barchas-Lichtenstein, J. & Fraser, J. (2017). Scaling the SRL Model. New Knowledge Publication #NSF.100.190.04. New York: New Knowledge Organization Ltd.

**USD.029.220: UAV Use to Survey Nesting Birds in Restoration Sites**

Danoff-Burg, J.A., Meyer, D. & Kastner, R. (2017). Using Unmanned Aerial Systems for Nesting Bird Surveys: A Practical Handbook. New Knowledge Publication #USD.029.220.01. New York: New Knowledge Organization Ltd.

**EPA.132.257: Teaching Our Cities**

Gupta, R., Rank, S. & Gloeckler, S. (2017). Teaching Our Cities Initial Educator Survey Topline Report. New Knowledge Publication #EPA.132.257.01. New York: New Knowledge Organization Ltd.

Gupta, R., Rank, S. & LaMarca, N. (2017). Teaching Our Cities Mid Workshop Survey Topline Report. New Knowledge Publication #EPA.132.257.02. New York: New Knowledge Organization Ltd.

Gupta, R., Rank, S. & Crim, H. (2017). Teaching Our Cities Student Survey Topline Report. New Knowledge Publication #EPA.132.257.03. New York: New Knowledge Organization Ltd.

Gupta, R., Rank, S. & Crim, H. (2017). Teaching Our Cities Administrator Report. New Knowledge Publication #EPA.132.257.04. New York: New Knowledge Organization Ltd.

Rank, S., Gupta, R. & Ardalán, N. (2017). Teaching Our Cities Evaluation: Impacts on Schools, Students, & Educators. New Knowledge Publication #EPA.132.257.05. New York: New Knowledge Organization Ltd.

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