Médecins Sans Frontiers doctors conduct a Phase III rotavirus vaccine trial at Epicentre’s Niger Research Center at the Maradi Hospital, which receives an annual capacity building grant of $100,000 from the Elsevier Foundation.

White City students at a recent Imperial College London workshop with the student drone society. The Elsevier Foundation supported Maker’s Challenge space will launch in September, hosting future White City students as they navigate 3D printers, tackle robotics and many other tech challenges.

2017 OWSD-Elsevier Foundation woman scientist award winner Felycia Edi Soetaredjo, PhD, Lecturer at Widya Mandala Surabaya Catholic University in Surabaya, Indonesia, was recognized for her work utilizing waste and cheap materials for environmental remediation of renewable energy.
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Foreword

It has been an incredible privilege to steer the Elsevier Foundation’s development over the last decade. I continue to be inspired by the dedication and resolve of this group as we strive to tackle important global challenges. It therefore gives me great pride to convene our new Board in Amsterdam this September. The strategic insights and skills you will bring to bear on our programs and discussions are invaluable—in particular as we respond to the UN Sustainable Development Goals (SDGs) to “end poverty, protect the planet, and ensure prosperity for all.”

Since their introduction in 2015, the SDGs have served as a powerful catalyst to reexamine what our unique contributions should be to help tackle the global challenges that we face today. Elsevier’s commitment to support the SDGs began forthwith with a report on Sustainability Science in a Global Landscape. Published on the eve of the SDGs, the report provides a comprehensive picture of where the strengths and gaps lie in the current state of sustainability science. By mapping a new research discipline, the report’s objective is to catalyze a more informed dialogue between academics, civil society and policymakers on the best way forward.

The report’s evidence-based analysis has also helped us sharpen our focus and move beyond libraries as our primary vector to researchers themselves. Our new Elsevier Foundation program “Research in Developing Countries” is a direct response to the findings of this report and the need for the global South to boost their capacity in sustainability science through scholarships, exchanges and joint research projects. In 2016 we started a partnership with The World Academy of Sciences (TWAS) to boost North South collaboration in Sustainability. The TWAS Elsevier Foundation Program provides travel grants for PhD’s and postdoc scientists studying in sustainability fields and hosts case study competitions to celebrate successes.

Likewise, we anticipate that the key findings in the latest 2017 Elsevier analytics report, Gender in the Global Research Landscape will provide a strong evidence base as we continue to evolve the Elsevier Foundation’s “Diversity in STM” program area. With research performance mapped across 24 research disciplines, in 12 countries, over 20 years we are equipped to steer future programming and interventions—especially with a view to women’s participation in technology studies.

The challenges we face are great, but we believe that science, data-based insights and an excellent Board can help shape the Elsevier Foundation—and our world—for the better.

Youngsuk “YS” Chi
President
The Elsevier Foundation
Who we are

“Over the past few years, we have sought to reengineer our programs, working directly with key partners to reinforce the growth of research ecosystems, diversity in science and global health. Looking ahead, our goal is to harness the power of technology to expand these opportunities to underserved communities.”

YLANN SCHEMM
Director
The Elsevier Foundation

What we do
The Elsevier Foundation is a corporate not-for-profit 501(c)(3), funded by Elsevier, a global information analytics business that helps institutions and professionals progress science, advance healthcare and improve performance for the benefit of humanity. The Elsevier Foundation provides over $1 million USD a year in grants to knowledge centered institutions around the world, with a sustainability focus on innovations in health information, diversity in STM, research in developing countries and technology for development. The Elsevier Foundation also provides matching funds to the charitable organizations employees personally support to encourage and support their generosity and community involvement. To maximize the impact of employee charitable giving, the Elsevier Foundation matches, dollar for dollar, donations made by eligible employees, up to $1,000 per year, to eligible nonprofit organizations.

How we work
The Elsevier Foundation is governed by its Board which is comprised of five external and 6 internal members representing Elsevier, the company. Members serve 3 year renewable terms. Our Elsevier Foundation Board members hold a broad range of expertise and interest in corporate philanthropy across issues such as development, climate change, diversity and inclusion, education, research capacity building and global health. The Elsevier Foundation Board meets annually to provide a strategic guidance of the Foundation’s programming and governance.

On a day to day basis, the Elsevier Foundation is run by a small core team consisting of the director, program officer, an appointed treasurer and legal counsel. In addition to supporting our annual programmatic funding, Elsevier offers in kind support through office space, design and media outreach as well as volunteer support as needed from throughout the company.
I. The Elsevier Foundation

Our Board

The Elsevier Foundation is governed by our Board which is comprised of 5 external and 5-6 Ex Officio or internal members representing Elsevier. Members serve 3 year renewable terms. Our Board members have a broad range of expertise and interest in the UN Sustainable Development Goals including development, climate change, diversity and inclusion, education, research capacity building and global health. Our Board meets annually to provide strategic guidance on the Foundation’s program priorities, new partnerships, emerging issues and best practices. Full biographies are available in the Appendix.

Xuetao Cao  
President  
Chinese Academy of Medical Sciences

Nikunj Jinsi  
Global Head  
International Finance Corporation Venture Capital group

Beverly Malone  
CEO  
National League for Nursing

Cosmas Ochieng  
Executive Director  
African Centre for Technology Studies

Geraldine Richmond  
Presidential Chair in Science  
University of Oregon
TheElsevierFoundation

ExOfficio

The Ex Officio or internal members of our Board are leaders within Elsevier and deeply supportive of our mission as we align our unique contributions as a corporate philanthropic institution with the needs of our communities. The President of the Elsevier Foundation Board, Youngsuk “YS” Chi, presides over the annual meeting to ensure that the Elsevier Foundation employs sound ethical and legal governance and financial management policies. Full biographies are available in the Appendix.

Suzanne BeDell
Managing Director
Elsevier

Youngsuk “YS” Chi
Chairman
Elsevier
Director of Corporate Affairs
RELX
President
The Elsevier Foundation

John Danhaer
President
Clinical Solutions
Elsevier

Hannfried von Hindenburg
SVP
Global Communication
Elsevier

Emilie Marcus
CEO
Cell Press

Ron Mobed
CEO
Elsevier
I. The Elsevier Foundation

Our Team

On a day to day basis, the Elsevier Foundation is run by a small core team consisting of the director, program officers, and a specially appointed treasurer and legal counsel. We are also able to draw on advice from our immediate past Executive Director, David Ruth. In addition to supporting our annual programmatic funding, Elsevier offers in kind support through office space, design and media outreach as well as additional volunteer support as needed from throughout the company. Full biographies are available in the Appendix.

Ylann Schemm  
Director  
Elsevier

Domiziana Francescon  
Program Officer  
Elsevier

Chris Capot  
Nurse Faculty Program  
Elsevier

Maria Markova  
Treasurer  
Elsevier

Kenneth R. Thomson II  
Legal Council  
RELX
I. The Elsevier Foundation

Our Programs

In 2015, after a decade of grant-making, the Elsevier Foundation staff conducted a review of the Foundation’s priorities with our Board, company leaders, past partners and longstanding advisors. Our goal was to find ways to more effectively align our programs to the key challenges of science, health and technology challenges, as outlined in the 2015 UN Sustainable Development Goals. As a result of that review, we decided to move from a grant-making approach that was driven by an annual “call for proposals” to an emphasis on co-developing impactful program ideas directly with a select group of partner organizations that were working in areas of particular interest to the Foundation. We concluded that the shift to a partnership model would allow us to learn from leaders in the field to develop our own knowledge and expertise, enable closer and more sustained involvement in the work of those organizations, the ability to assess the impact of our efforts over a longer period of time, as well as potential efficiencies in working with individual partners on a range of projects over longer periods of time. In 2016, we in place a new series of partnership-driven programs in four areas: Health & Innovation, Research in Developing Countries, Diversity in STM, and Technology for Development.

Health & Innovation
Information technology can significantly advance the delivery of healthcare in developing countries. Health & Innovation directly supports organizations working to improve health outcomes in developing countries.

Research in Developing Countries
For many low-income countries, the scientific gap limits their involvement in vital research. Research in Developing Countries seeks to redress the balance with partnerships designed to widen access to academic knowledge.

Diversity in STM
The future of science requires a robust and diverse workforce drawn from all corners of society. Diversity in STM focuses on advancing women in science and help under-served youth receive greater exposure to science education.

Technology for Development
Technological solutions play a key role in helping the world solve some of the greatest challenges. Technology for Development harnesses the power of technology and big data for good, tackling some of the toughest global issues.
Our Future

We are now proposing changes in the Elsevier Foundation which we believe will enable us to make a greater contribution to the critical issues within science, health and development. Technological innovations have come to play an increasingly important role in solving some of the world’s most important challenges. The Foundation has traditionally focused many of our philanthropic programs on increasing electronic access to science and health information for researchers and clinicians in the developing world, and providing the skills in search and discovery that enable them to work and contribute more effectively. The advent of data analytics technologies presents us with an opportunity to focus more of our philanthropic efforts on developing and deploying these new technologies across all of our core programs in global health and research in developing countries.

It is a focus that aligns with the rapid development of Elsevier, our funder’s capabilities in these fields. Elsevier today is creating tools that make sense of information, apply smart technology to complex problems while drawing from authoritative information and structured data to help make better decisions, deliver better healthcare, and advance science. Expanding the Foundation’s own efforts to foster the introduction of these new technologies presents us with an opportunity to supplement our philanthropic contributions with the expertise, energy and interests of the company’s employees. That increased focus on technology also serves as a complement to our ongoing efforts to expand the participation of a more diverse range of people in the advancement of science and health. It also poses the question of whether we should increase—or limit—our focus to diversity in the tech sector itself and whether there is an important role that the Foundation can fulfill here.

Over the next 3 years, our intention is to double the number of technology-oriented health and development projects we support from 30% to 60%. Our remaining projects will focus on the challenge of expanding diversity in science and health. To meet this goal, we propose to expand our use of long-term partnerships with a select group of established and emerging organizations working in global health and development, while supplementing those projects and partnerships with our own expertise through skills based employee volunteering. We would also selectively issue “requests for proposals” (RFPs) in areas where we believe there are opportunities to expand our reach into new areas of innovation and where an RFP has the potential to increase visibility for the role of technology in development. Specifically, our goal would be, with the advice and support of the Board, to identify, develop and fund projects that enable data scientists to find solutions to significant challenges in health and development, as articulated in the UN Sustainable Development Goals (SDGs), and then scale those solutions for wider impact. As a start and to begin our own learning process, in 2017 we have piloted several projects with DataKind and AMREF that are specifically focused on technology and development. Those projects are described below for the Board’s review.

We propose to enlist the Elsevier Foundation Board in providing advice, input and expertise on the development and execution of a new strategy over the next 1-3 years. In particular, the major strategic questions we look forward to discussing with you include:

- Which technologies and solutions offer the best opportunities to advance global health and development in the coming years?
- How can we embed technology into our existing partnerships where those partnerships are delivering good results?
- Should diversity and inclusion in the science and health sectors, as we propose, continue to be a focus of the Foundation?
- What are appropriate goals for funding via long-term partnerships vs. solicited proposals (RFPs)?

We look forward to working with our Board to explore these themes and further evolving the Elsevier Foundation’s strategic fit with Elsevier’s unique capacities and the UN Sustainable Development Goals.
Imperial College London (ICL) student mentor and young engineer at a recent drone workshop with local White City students. The Elsevier Foundation will support the Maker’s Challenge in White City where future outreach will take place with $100,000 a year.

Participants completing exercises in a Research4Life/AGORA workshop at the University’s Central Library in Yangon, Myanmar. The Food and Agriculture Organization (FAO), WorldFish and Research4Life organized the workshop aimed at raising awareness of key trends in scientific publishing in agriculture, fisheries and forestry, as well as providing access to information and research in these fields.
Our Partnerships

REPORTS
Progress reports from partnerships in 2016-2017

Visitors taking part in a water filtration experiment during an Imperial College London “Fringe” event to engage the White City community. ICL is building their new biomedical campus and a “Makers Challenge” space for underserved teens to develop their tech and innovation skills in White City. The Elsevier Foundation has been an early adopter of this important outreach project. © Imperial College London
“We want to support MSF/Doctors without Borders’ mission to provide high-quality medical care to the most vulnerable populations. This work resonates well with the Elsevier Foundation’s focus on supporting the United Nations Sustainable Development Goals.”

YOUNGSUK “YS” CHI
President
The Elsevier Foundation
Information technology can significantly advance the delivery of healthcare in developing countries, addressing problems such as the high risk of maternal death across Africa and HIV/AIDS prevention and treatment. “Health & Innovation” directly supports organizations working to improve health outcomes in both the North and South through the innovative use of health information. We work in close partnership with the organizations which each address this in their own way.

Doctors without Borders
Doctors Without Borders/Médecins Sans Frontières (MSF) is a leading international organization delivering emergency medical aid to people affected by conflict, epidemics, disasters, or exclusion from health care. The Elsevier Foundation is collaborating with Epicentre, MSF’s research and training partner, to support their Niger Research Center with in kind help and a $300,000 grant over a period of 3 years, with a goal of building field-based research capacity to deliver better medical care worldwide.

JIBU program
AMREF Health Africa is the largest African driven NGO committed to improving health and health care in Africa. AMREF Health Africa’s JIBU program will use an $80,000 a year over 3-year grant to scale their mobile nursing education pilot into a comprehensive program to provide targeted mLearning or mobile nursing education in Eastern Africa.

Nurse Faculty Leadership Academy
Since 2008, the Sigma Theta Tau Nursing Honor Society (STTI), has created a rigorous leadership development curriculum enabling junior nurse faculty to develop the necessary skills to become successful leaders in nursing education. The Elsevier Foundation provides an annual grant of $100,000 to support the NFLA contribution to reducing the global nursing shortage.
“Elsevier’s support of our work goes beyond financial support. It will allow our medical teams to have access to scientific, technical and medical information that is essential to improve the quality of humanitarian healthcare MSF provides to the most vulnerable populations in the world.”

JÉRÔME OBERREIT
Secretary General
Médecins Sans Frontières

Description
Half a million African children each year die from Rotavirus, an extremely infectious disease causing severe dehydration, diarrhea and death. The disease is highly preventable and vaccines are available but must be kept below 8°C. This is a tall order when trying to reach children in developing countries where temperatures soar and refrigeration options are often limited. Doctors without Borders teams are working in Niger, where infectious diseases and child malnutrition remain the principle causes of mortality, to conduct a Phase III vaccine trial for a new, cheaper and heat-resistant Rotavirus vaccine. The Niger Research Center is run by Epicentre, MSF’s research and training arm, and is based in Maradi about 600 kilometers from the capital of Niamey. Located in one of the least developed countries in the world, the centre is equipped to perform large-scale clinical trials, investigate epidemics, conduct prevalence surveys as well as program monitoring and evaluation activities.

The Elsevier Foundation partnership supports Epicentre’s Niger Research Center with targeted training and mentoring of their African medical and scientific staff. It also aims to boost the center’s overall visibility by establishing a “Scientific Day” Conference in Niger, open to scientists, doctors, policymakers, aid organizations, funders and journalists. In addition, Elsevier has offered MSF and Epicentre courtesy access to core products and services: ScienceDirect, Scopus, ClinicalKey, SciVal, Embase and Mendeley to support their research endeavors.

Goals
• Build local staff capacity to provide high-quality medical care in insecure environment.
• Support “southern-driven” research, providing resources to local populations to bring change in their home countries.
• Empower medical teams to have access to the most up-to-date scientific, technical and medical information that is critical in such a tough environment.
• An initial focus will be on gaining exposure for the Epicentre staff at international Francophone conferences. Eventually, the goal is to help the staff develop sufficient language training to attend and eventually present at some of Elsevier’s conferences on epidemics, infectious disease, etc.

Milestones
• Dr. Yap Boum, Epicentre African representative served on a panel discussion organized by the Elsevier Foundation at the African Health Agenda International Conference in Nairobi in March 2017 on African driven health care solutions: Finding the “Jibu” for African Health Information Systems: Case Studies from MSF/Epicentre, Amref, the Lancet and the African Academy of Sciences.
• Scopus and SciVal training has been given to Epicentre staff in Paris, Uganda and Niger by Genevieve Musasa, Elsevier’s bilingual customer training consultant; in addition, Embase training has also been completed.
• Based on his own analytics research for MSF, Dr. Boum has subsequently been invited to serve as a SciVal advisor for Africa.

Future plans
The Scientific Day in Niger will be held during the week of October 9th. The Elsevier Foundation team is working with Epicentre to provide in-kind resources and source expert Francophone speakers from the Lancet to serve on a policy panel discussion.
Left and below: mothers and children at Epicentre’s Niger Research Center. Since May 2014, Epicentre has conducted clinical trials for a new heat stable vaccine against Rotavirus, a devastating but highly preventable and treatable diarrheal disease. If proven safe and effective, this new vaccine could be a life-saving game changer for children in Sub Saharan countries.

Media Coverage

- Grant will support Doctors without Borders’ research and training hub in Niger (Ylann Schemm, October 25, 2016)
- Elsevier and Doctors without Borders Partner to Help Tackle Africa’s Health Challenges (Press release, October 25, 2016)
“We believe that better health starts with a well-educated and informed workforce. In order to decrease the number of unnecessary deaths of mothers and children in Africa, it is vital to invest in human resources for health.”

GITHINJI GITAHII
Group CEO
Amref Health Africa

Description
Jibu is a mobile continuing education app for nurses, scaling up from a small Kenyan pilot to reach nurses across East Africa through their hand held devices. “Jibu”, Swahili for “answer”, is designed by Amref Health Africa to address the geographic, financial and infrastructural barriers that nurses and midwives face when accessing information essential to learning and practice in Kenya, Uganda and Tanzania. In order to effectively scale up from a pilot app and address the enormous demand from nurses and other health stakeholders, the Amref team is tackling many challenges. These include improving the interface’s user-friendliness, developing more pedagogically sound content for nurses and embedding it further in frameworks for continuous professional development. One compounding factor is the scarcity of existing literature on mLearning interventions in Africa and the importance of gathering Jibu’s evidence to start filling that gap.

Goals
• Increase access to information and learning materials
• Support the adaptation of the Continuous Professional Development (CPD) framework for mLearning
• Measure the effect of using mLearning on training and practice of nurses and midwives in Kenya

Milestones
Since the Elsevier Foundation began supporting Jibu in January 2016, the Amref team has:
• Further refined the mobile application, conducting a redesign after extensive testing and feedback.
• Supported local capacity by developing mLearning content to ensure continuity.
• Committed to the development of a CPD framework.
• Worked with the Nurses Council of Kenya (NCK) to ensure that nurses are rewarded with points when they enroll in the jibu program.
• Received accreditation of Jibu’s CPD courses, further motivating practitioners to take courses providing them with new skills, knowledge and CPD points.
• Developed a strategic enrollment plan to boost usage by nurses and midwives across Kenya.
• Measured the impact of mLearning on the training and practice of nurses and midwives in Kenya.
• Increased international knowledge sharing, raising Jibu’s visibility:
  o Presented Jibu’s results at the STTI International Nursing Research Congress in Cape Town, South Africa, July 2016.
  o Presented Jibu in a panel on African driven health solutions organized by the Elsevier Foundation at the Amref Health Agenda International Conference in Nairobi, Kenya, March 2017.

Challenges
Going forward, Amref’s Jibu team will continue to tackle technological issues including cross-platform development and high network dependency. These issues will be addressed by enabling offline access and resolution responsiveness.

Future plans
• Create a revenue generation model whilst ensuring that the platform remains affordable.
• Develop plans to explore freemium versus premium courses on Jibu.
• Investigate how the data generated through Jibu can be gathered, analyzed and potentially monetized to help develop a self sustaining business model.
• Continue collaborating with the Nurses Council and the Kenya Ministry of Health to enhance the learner experience.
“There are very few opportunities for continuing medical education, sometimes only those organized by the county health management team, which could even be once per year and take about 10 minutes only.”

MERCY
Health Worker, Kakululo Dispensary, Kenya

“The Jibu m-learning program provided proof that there is an unquenchable thirst for knowledge and information among health workers across the region, and that any opportunity to access information and training materials is welcome.”

DIANA MUKAMI
eHealth Programme Manager
Amref Health Africa

Media Coverage
- Africa in the era of sustainable development (Githinji Gitahi, April 19, 2017)
- M-learning gives Kenyan nurses scalable continuing education (Diana Mukami, October 18, 2016)
“The NFLA truly shaped the course of my career. It helped me develop my own transformational leadership identity and provided me the tools to make a significant difference in the lives of my students and fellow faculty. My growth as a leader continues today through the tremendous relationships I formed during the Academy with fellow scholars, mentors, and advisors.”

LARRY SLATER
Clinical assistant professor
New York University’s Rory Meyers College of Nursing

Nurse Faculty Leadership Academy

Description
Surprisingly, the global nursing shortage is less about lack of motivated students than qualified teachers. The Nurse Faculty Leadership Academy (NFLA) aims to ease the transition for the next generation of nurse faculty from practice to teaching. The program, which has been supported by Elsevier since 2009, was designed for aspiring leaders in nursing education. The academy provides an intensive 20-month leadership development curriculum constructed on intellectual and experiential learning opportunities facilitated by an esteemed faculty. Emerging leaders at schools of nursing who have served between two to seven years as full time faculty are eligible to apply to become a Scholar. Each Scholar works with a recognized Leadership Mentor and Faculty Advisor throughout the academy.

Goals
• Facilitate leadership development of the Scholars.
• Promote nurse faculty retention and satisfaction.
• Foster academic success of the Scholars
• Cultivate high-performing and supportive environments in academe.

Milestones
Three distinct curriculum domains form the foundation of the academy experience: Individual Leadership Development; Advancing Nursing Education through the Leadership of a Team Project; and Expanding the Scope of Influence within the Scholar’s Organization, Community, and Profession.
• Each Scholar completes a comprehensive leadership behavioral assessment and designs an Individual Leadership Development Plan that serves as a guide for behavioral change.
• The team project serves as the vehicle for leadership development and focuses on the advancement of nursing education with measurable outcomes. Projects have been conducted in the areas of curriculum revision, faculty practice, simulation, faculty development, and more.
• Plans to expand the scope of influence are defined following a gap analysis for the Scholar’s organization, community, and profession. A detailed portfolio of activities related to this domain is kept current throughout the academy.

Outcomes
Data from assessment instruments, self-report from the Scholars, evaluations from organizational leadership development observers, Leadership Mentors, and Faculty Advisors are used in measuring outcomes related to Individual Leadership Development. Throughout the pilot program and three academy cohorts Scholars have consistently demonstrated advancement in leadership behavioral change, confidence in leading others, facilitation of teams, and professional presence. Projects have resulted in measurable outcomes related to student learning, academic environments, simulation effectiveness, faculty practice program success, improved precepting skills for graduate nurses, program enhancements for accelerated BS students, and many more.

Future plans
A rigorous evaluation and planning period has begun to enhance the NFLA even further. Focus on the global presence of the academy and international participation is a priority for the future. As well, the revised curriculum will integrate a strong theme of technology in relation to leadership of nursing education in the future. Longitudinal data from academy participants will guide the planning for moving the NFLA to the forefront of leadership development in nursing education throughout the world.
“I can honestly say that I owe my career to NFLA. Since ‘graduating’ in 2013, my role has changed from that of a faculty member to Chair of a Division. I continue to use knowledge learned in NFLA as I grow new programs, hire faculty, and set the vision for my departments. I still connect with members of NFLA and appreciate the network of colleagues that has formed because of participation. NFLA is life-changing!”

CAROLYN HART
Associate Professor and Chair,
Wilson College

Media Coverage
- NFLA: Exactly what I needed as a nurse educator and leader (Larry Z. Slater, May 23, 2016)
- Nurses unite on The View (Chris Capot, September 18, 2015)
TWAS fellow Thomas Egwang working with a colleague at Med-Biotech Laboratories, Kampala, Uganda. The Elsevier Foundation sustainability partnership funds travel grants for TWAS fellows, visiting experts and case study competitions.
Research in Developing Countries

Only 2% of sustainability science research output is produced by developing countries, despite the fact that they are often the hardest-hit by climate change, food, energy and other scarcities. For many low-income countries, this so-called 'science poverty' limits the effectiveness and potential for science and innovation to be relevant to their needs. The Research in Developing Countries program seeks to redress the balance with four key partnerships designed to widen access to academic knowledge and deepen the involvement of scientists in developing countries in SDG-driven research relevant to the issues they face on a daily basis.

II. Our Partnerships

The Elsevier Foundation Green and Sustainable Chemistry Challenge
Chemistry is an inextricable part of the world we live in—97 percent of our manufactured goods are made through processed chemicals. The Challenge encourages scientists to use green and sustainable chemistry solutions to tackle some of some of the developing world’s greatest challenges whether in water, sanitation or energy.

Research without Borders
Local research is essential for local challenges. Research without Borders partners up Elsevier volunteers with the African Journal Partnership Program, an NIH supported research capacity building initiative for African health journals. Through in depth training and mentoring, we aim to boost the impact, effectiveness and visibility of African research for the African health context.

The World Academy of Sciences
Global institutions and meetings are vital for knowledge exchange, strategy, policy and talent development. The TWAS North South Collaboration in Sustainability aims to boost the participation of researchers in developing countries in sustainability science through annual conferences, travel fellowships, case study competitions and visiting experts in sustainability.

Librarians without Borders
Making research available in developing countries is not sufficient to bridge the digital divide. Since 2007, Librarians without Borders has worked to fill that gap providing information literacy training which forms the backbone of Research4Life, a UN-publisher partnership providing more than 77,000 peer reviewed resources for free or low cost to researchers in developing countries. By creating a new cadre of dedicated Research4Life trainers, Librarians without Borders is working to scale up countries’ ability to strengthen their health sciences information capacity with qualified librarians, technological infrastructure, and access to quality information.
“The success was overwhelming; it made it a real challenge to come up with the top five proposals. It demonstrates both the need for and the availability of new ideas to tackle well-known challenges in the developing countries. It also underlines the huge potential chemistry has to contribute to United Nation Sustainable Development Goals – if it’s done in a sustainable manner.”

KLAUS KÜMMERER
Director, institute for Sustainable and Environmental Chemistry, Leuphana University Lüneburg

Chair, Elsevier Foundation Green and Sustainable Chemistry Challenge Jury Panel

The Elsevier Foundation Green and Sustainable Chemistry Challenge

**Description**
Chemistry is part of the fabric of every aspect of our lives, across every society. The Elsevier Foundation Green and Sustainable Chemistry Challenge taps the major role that chemists play in developing medicines, fertilizers, and other chemicals needed to resolve critical environmental and climate issues in developing countries. Jointly run with Elsevier’s chemistry journals team, the contest aims to raise awareness around how chemistry can help us to make incremental, crucial progress towards the SDGs.

Launched with the Elsevier Foundation this year, the Challenge invites applicants from around the world to submit ideas for chemistry solutions addressing sustainability challenges in the low income countries – energy, water, waste reduction, recyclability, chemistry, agriculture, medicine and more. The first prize challenge winner receives a €50,000 award, and the second prize winner receives a €25,000 award.

**Goals**
The Challenge aims to:
- Highlight innovative chemistry projects that address issues in developing countries.
- Invite the top 5 finalists to present at the annual Elsevier Green and Sustainable Chemistry Conference in Berlin, creating critical visibility for an emerging community in the chemistry world.
- Encourage sustainability science in developing countries.

**Milestones**
The 2017 winners demonstrate how green and sustainable chemistry offers tangible ways to support the UN Sustainable Development Goals. Dr. Denis de Lima from Brazil, won the $50,000 first prize, “Biosurfactants to Combat Mosquito-Borne Diseases”, which creates an environmentally friendly and inexpensive larvicide from cashew nut waste to combat diseases such as dengue fever, Chikungunya and the Zika virus. Dr. Chioma Chikere, a Nigerian woman scientist, received the second prize for her project, “Crude oil-polluted site ecorestoration in the Niger Delta”, which aims to develop a cost-effective, ecologically-safe and sustainable bioremediation system to clean up land devastated by oil pollution. In all, the Challenge met several milestones

- Receiving 680 proposals, a 36% increase from the 2016 Challenge held by the Elsevier chemistry journal team.
- Welcoming participants from 89 different countries of which, 25 were technologically lagging countries (as defined by TWAS, The World Academy of Sciences).

**Future plans**
The 2018 Challenge aims to grow the number of quality proposals while streamlining and increasing the transparency of the overall review process. To achieve this, we will implement a two-step proposal process, working closely with a team of chemistry graduate student reviewers and our expert panel of judges. The graduate students who are students of the academic judges will receive an honorarium and a complementary registration to the Elsevier Green and Sustainable Chemistry Conference where the winners will be announced.

**Funding**
$27,660 in 2017
$55,320 in 2018

**In kind resources**
- Travel grants and free registrations to Elsevier’s Green and Sustainable Chemistry Conference for the 6 member judging panel; additional free registrations for key student reviewers of the Challenge to attend the conference.
The winners of the 2017 Elsevier Foundation Green and Sustainable Chemistry Challenge are first-prize winner (right) Dênis Pires de Lima, PhD, professor at Federal University of Mato Grosso do Sul, Brazil, and runner-up Chioma Blaise Chikere, PhD, lecturer at the University of Port Harcourt, Nigeria.

Ylann Schemm (front), Elsevier’s Senior Publisher Rob van Daalen (right), and the Challenge judges (L to R): Sam Adu-Kumi, Borhane Mahjoub, Helmut Krist, Klaus Kümmerer and Joel Tickner.

Finalists Alvaro Orjuela, Flavie Prezelus, Chioma Blaise Chikere and Dênis Pires de Lima.

Media Coverage

- Winners selected for Elsevier Foundation Green and Sustainable Chemistry Challenge (Domiziana Francescon, May 18, 2017)
- Winning proposal for Green and Sustainable Chemistry Challenge improves Malaysian rice paddy yield (Rob van Daalen, May 9, 2017)
- Cashews to combat mosquitoes? Top 5 proposal for the Green and Sustainable Chemistry Challenge (Domiziana Francescon, March 20, 2017)
- Call for proposals for Green and Sustainable Chemistry Challenge (Domiziana Francescon, June 02, 2016)
- The Elsevier Foundation Launches the Next Green and Sustainable Chemistry Challenge (Press release, June 01, 2016)
“The progress of the AJPP journals has been substantial, with the journals all having raised their visibility online for readers and authors in Africa and worldwide and the Editors taking leadership positions in international organizations.”

ANNETTE FLANAGIN
Co-director
African Journal Partnership Program

**Description**
Invaluable research being carried out in African countries is often not available either to African researchers or to a wider international audience. To boost the impact and discoverability of African health research, the Elsevier Foundation created “Research without Borders”, a skills based volunteer partnership with the African Journal Partnership Program (AJPP) tapping Elsevier expertise in publishing, marketing, operations and technology. AJPP is a high profile mentoring program supported by the US National Library of Medicine (NLM) and NIH’s Fogarty International Center and coordinated by the Council of Science Editors. Founded in 2004, the AJPP pairs 9 African health journals in Ghana, Malawi, Ethiopia, Sierra Leone, DRC, Uganda, Mali, Kenya and Rwanda with leading US and UK health journals including, The Lancet, The Annals of Internal Medicine, BMJ, The New England Journal of Medicine and The Lancet. With a grant of $204,000 over the course of 2016–2018, Elsevier volunteers provide supplementary training to the African journals for a period of 1-4 weeks in country. The journals include: African Health Sciences, Annals of African Surgery, Ethiopian Journal of Health Sciences, Ghana Medical Journal, Malawi Medical Journal, Rwanda Journal of Health Sciences, Annales Africaines de Medecine, Mali Medical.

**Goals**
Elsevier Foundation volunteers work closely with the journals and their mentors to provide strategic, editorial and operational guidance, depending on their area of expertise. Their activities include:
- Strengthen the impact of African Journals by improving their quality and discoverability through targeted mentoring teams.
- Improve visibility of African research by working with their teams to submit applications to Scopus, MEDLINE and other scholarly indexes.
- Facilitate collaboration and knowledge exchange between African editors and their counterparts in other parts of the world.
- Support the training of authors, reviewers and journalists in Africa
- Building journal websites, evolving editorial board practices and improving the pool of authors and reviewers.
- Work with the Editors in Chief to develop a strategic business plan, usually with a sustainable open access business model.

**Milestones**
Since November 2016, the Elsevier Foundation team has successfully placed 12 volunteers in Kenya, Ghana, Sierra Leone, Malawi, Ethiopia and Rwanda. Another 8 volunteers will complete their African assignments by January 2018.

**Future plans**
In September 2017, we will host the 2 Francophone journal teams from the DRC and Mali (Annales Africaines de Medecine and Mali Medical) for a week-long intensive training session in Amsterdam with 5 Francophone volunteers from our Amsterdam, Paris and London offices. The decision to host the training in Amsterdam was made due to travel advisories and security issues. Looking ahead, we will aim to streamline our volunteer contributions to AJPP with focus on the following points:
- Improve handover between volunteers to ensure the best possible impact.
- Aim for a better balance for volunteers between core journal improvement work and author/reviewer training to help raise journals’ visibility within their universities.
- Target another 10 Elsevier volunteers in 2018.
Media Coverage
• Firsts in African health research: spotlight on Dr. Lucinda Manda Taylor (Cynthia Clark, June 28, 2017)
• Research without Borders: sharing expertise in Africa (Domiziana Francescon, January 13, 2017)

The Elsevier Foundation 2017 Board Report

L to R: Elsevier volunteer Young Wu with the Managing Editor of Sierra Leone Journal of Biomedical Research Dr. Rashid Ansumana, and the Editor-in-Chief Prof. Aiah Gbakima.

Elsevier volunteers Meg Brew, Supplier Development Manager (middle row 5th from left) and Lancet Executive Editor, Jocalyn Clark (2nd from right, bottom row) after delivering a authorship skills workshop with the Ghana Medical Journal team.

Dr. Lucinda Manda-Taylor, (left) Editor-in-Chief of the Malawi Medical Journal (MMJ) and Cynthia Clark, (right) Director of Digital Journals at Elsevier, a Researchers Without Borders volunteer at the 2017 African Journal Partnership Program (AJPP) meeting. Cynthia spent a month collaborating with the MMJ team and considered it, “one of the most professionally rewarding opportunities of my life.”
“Visiting experts are a highly efficient way to share knowledge and to build global network. They inject practical, multi-disciplinary knowledge and experience that will be crucial for the future of healthy communities, both South and North.”

MOHAMED H.A. HASSAN
Interim Executive Director
The World Academy of Sciences

From Elsevier and SciDev.net’s Sustainability Science in a Global Landscape 2015 report we know that the field of sustainability science is growing rapidly, but also that a dramatic North-South research divide continues to exist. The TWAS North-South Sustainability Collaboration aims to boost the 2% of sustainability research contributed by researchers in low-income countries, and to involve and inspire scientists in those countries to help find the solutions that work best for their societies. The partnership includes 4 components: 1) Ph.D. Fellowship Travel Grants, 2) Sustainability Case Studies Competition for Ph.D. Students, 3) Sustainability Visiting Experts, 4) Sustainability Symposium at the TWAS Annual Meeting.

Goals
We have 3 main goals for our partnership: boost North South collaboration in sustainability science; raise awareness about the need for sustainability science, and offer opportunities to scientists in low-income countries to contribute to the body of sustainability research.

Milestones
• Ph.D. Fellowship Travel Grants awards over 400 Ph.D. fellowships a year providing placements in China, Brazil, South Africa and Malaysia. The initiative supports South-South knowledge exchange, helping to avoid brain drain. In 2016, the Elsevier Foundation supported 10 travel grants for students in sustainability fields.
• Sustainability Case Studies Competition promotes awareness of food security, climate change, and water and sanitation issues, stimulating young scientists to think of challenges in terms of real life scenarios relevant to their countries. They asked questions such as: can we reduce malnutrition by promoting health education and latrine use in Kenya? Is it feasible to use native medicinal plants for new anti-cancer compounds? The 5 winners, all Africans, received a $1,000 prize and a travel grant for the TWAS Young Affiliates Network Conference, held with the Brazilian Academy of Sciences in Rio de Janeiro, August 2017.
• Sustainability Visiting Expert brings sustainability expertise to institutions in least developed countries and promote knowledge exchange. In 2016, 4 grants were awarded to professors from China, the US, Germany and Nigeria to spend at least 2 weeks in host institutions in Liberia, South Africa, Cambodia and Lesotho, teaching and giving workshops. In 2017, another 6 experts have been identified to share their expertise in least developed countries.
• Sustainability Symposium at the TWAS Annual Meeting. In 2016, the Rwanda government hosted the annual TWAS meeting and we supported a panel of experts on “Facing Global Epidemics”. The conference was attended by over 200 scientists, policymakers and educators from more than 50 countries.

Challenges
• As many of the sustainability components were new to TWAS, the partnership experienced some growing pains but was able to adapt quickly given close ongoing collaboration between TWAS and the Elsevier Foundation.
• To expedite the selection procedure for PhD travel grants, TWAS has created a new online application system enabling students to indicate whether their research project addresses one of the SDGs.

Future plans
During the second half of the partnership, the Elsevier Foundation will work closely with TWAS to identify ways to embed a stronger technology focus across the sustainability collaboration.
Visiting researchers at one of the CAS-TWAS Centers of Excellence in Beijing, hubs of high-impact research and training organized by the Chinese Academy of Sciences (CAS) and The World Academy of Sciences (TWAS). As part of the program, up to 200 students/scholars from all over the world will be sponsored to study in China for doctoral degrees for up to 4 years.

Prof. Jane Polston of the Department of Plant Pathology at the University of Florida is hosted as a visiting expert by the College of Agricultural and Applied Biology at Can Tho University in Vietnam.

Dr. Yahkat Barshep teaching a field class in biodiversity conservation to university students in Liberia as part of her Sustainability Visiting Expert assignment.

Media Coverage
- Contest aims to boost innovation in sustainability research (Domiziana Francescon, June 30, 2017)
- Sustainability experts receive travel grants to provide training in developing countries (Domiziana Francescon, December 15, 2016)
- Bridging the North-South divide in sustainability (Ylann Schemm, January 04, 2016)
“Since 2017, the work of Librarians without Borders has been key to MLA’s mission of enhancing the quality of healthcare, education and research around the world.”

KEVIN BALIOZIAN
Executive Director
MLA

Description
Before the digital revolution, practising evidence-based health care, policymaking or education in developing countries was virtual impossible. In 2001, with the advent of open access and Research4Life, designed to bridge the digital divide with free and low-cost access, that changed. But developing countries still suffer from need for information literacy: how can doctors, librarians and policymakers make use of critical resources if they lack the skills to find them? The Librarians without Borders “E-library Training Initiative”, founded in 2007 by the Medical Library Association (MLA), is based on the principle that the key to improving global health is the ability of each nation to build and strengthen their health sciences information capacity with adequate technological infrastructure and access to quality information. In 2015, the Elsevier Foundation renewed and expanded support for LwB through 2018. The new grant was earmarked to develop a corps of trainers to build teaching capacity beyond that of the dedicated coordinator Lenny Rhine, University of Florida, who is nearing retirement. The Hinari/Research4Life Activities Grant enables the E-Library Training Initiative to continue the critical capacity building activities for the R4L programs and fund additional training.

Goals
• Expand the activities of the E-Library Training Initiative to develop an MLA community participating in the Initiative’s activities, and utilize MLA resources to enhance activities and promotion.
• Applicants to the Hinari/Research4Life Activities Grant can submit proposals for national workshops, or to and create a new training module, distance learning course or training videos, etc.

Milestones
E-Library Training Initiative: a total of 360 individuals were trained either at workshops or via distance learning course:
• 8 workshops were held in R4L eligible countries. Material included Hinari/PubMed database, Health-related Internet Sources, Reading and Writing Scientific Publications, Copyright and Plagiarism.
• Trainings at WHO County Offices focused on PubMed Searching, Health Information on the Internet, Reading and Writing a Scientific Paper, etc.
• 7 workshops were conducted in North America for librarians, faculty members and students, focusing on access to the resources and training material.
• The Hinari Master Trainer Distance Learning Course involved 7 participants who completed the intensive 8-week course.

Hinari/Research4Life (R4L) Activities Grant: in June 2016, 4 grants were awarded to librarians both from the North and South to support HINARI/R4L training activities promoting the use of the programs’ scientific research resources. The awarded librarians trained postgraduate students in Ethiopia (November 2016), did training in Ghana (March 2017), Hinari training in Honduras (March and April), and updated online video tutorials to facilitate self-directed learning (in process). Recruitment for the 2017 librarian trainer grants is now underway and will be announced by the end of the year.

Future plans
The 2 distinct threads will be continued. Workshops are scheduled for Tunisia or Egypt, Papua New Guinea, Malawi and possibly Myanmar, Madagascar and Namibia. An additional regional 1-day workshops is scheduled at the University of California/San Francisco (fall 2017).
Group activity/exercise at the Bangladesh national train the trainers workshop April 2016. After the presentation about the Hinari and Research4Life training material, groups are given a list of training scenarios and are asked to write a workshop program for two of them.

Librarians without Borders® National HINARI Train the Trainer workshop in Bangladesh, April 2016. Participants are completing hands-on exercises for one of the modules: Hinari portal, Hinari/PubMed, Searching Skills, E-books or Evidence-based Medicine resources.

At the Ghana National Train the Trainers workshop, after a presentation on the importance of marketing, participants are asked to develop a marketing plan discussing user groups, type of Hinari material to be used and how it would be marketed.

Media Coverage

- Elsevier Foundation’s new programs support STEM diversity and developing country partnerships (Ylann Schemm, February 01, 2016)
Nazli Kocyigit, a student at the IMC Weekend School, displays the bottle rocket she made in astronomy class. The Elsevier Foundation supports the IMC Weekend School’s science and health enrichment programs for underserved youth in Amsterdam.
3. Diversity in STM

The future of science requires a robust and diverse workforce drawn from all corners of society. Encouraging STM careers among young people with severely limited educational resources and few professional role models is a particular challenge. To address this, we have expanded our focus on advancing women in science to include new partnerships helping underserved youth receive greater exposure to science and health education.

**IMC Weekend School**
The IMC Weekend School offers a science and health enrichment program to underserved 11–13 year olds in Amsterdam. Our partnership fosters inspiring exposure to science and health education for children of largely immigrant backgrounds, encouraging STM careers but also promoting positive professional role models.

**Imperial College London**
Imperial College London (ICL) has developed the White City Maker’s Challenge program offering 14–18 year olds from White City, one of London’s most disadvantaged communities the opportunity to engage with cutting-edge science, 3D printers, engineering and design workshops, afterschool clubs, mentoring and project teams.

**The New York Academy of Sciences**
The New York Academy of Science’s highly successful After-School STEM Mentoring Program is designed to reach the city’s most underserved middle school children in remote schools across the 5 boroughs by training New York’s early career STEM graduate students to serve as mentors.

**The Organization for Women in Science for the Developing World**
Since 2010, the OWSD-Elsevier Foundation Awards for Early-Career Women Scientists in the Developing World recognizes the achievements of researchers who have made significant contributions to the advancement of scientific knowledge. The program represents a longstanding partnership with the Organization for Women in Science for the Developing World (OWSD).

**Portia**
Building on past New Scholars grants, Portia, the architect of the Gender Summits, and The Elsevier Foundation have developed a strategic partnership to promote the understanding and adoption of gender-sensitive approaches, and advance sex and gender sensitive research, innovation and development.

**GenderInSITE**
GenderInSITE promotes the role of women in science, innovation, technology and engineering, and demonstrates how applying gender lens can provide deeper insights, more effective programs and more sustainable outcomes in development for both men and women.
“If you don’t experience positive input for how to build your future at home or at school – I always say ‘vitamins for your mind’ [...] – it’s really hard to stay positive. So I thought we can change that by building an inspiring environment for children where they meet with people who are doing interesting work in society.”

HELEEN TERWIJN
Founder
IMC Weekend School

Description
IMC Weekend School is an enrichment program for children in underprivileged neighborhoods across the 10 largest cities in the Netherlands. Through a three-year course, professionals, volunteer teachers and coaches introduce students, ages 11–13, to a wide range of disciplines including science and health. They receive communication skills training, conflict resolution and all-round character development. The Elsevier Foundation grant supports the science and health programs for the Amsterdam based Weekend Schools.

Goals
• Encourage careers among young people from communities that have severely limited educational resources and few professional role models.
• Improve the outlook, self-confidence and prospects of underprivileged children, helping them to develop non-cognitive skills and acquire a sense of belonging to society.
• Tap Elsevier volunteers to work with the children as coaches for the science and health modules.
• Promote positive interaction between students, teachers and volunteer coaches, overcoming cultural and class boundaries.

Milestones
• The IMC Weekend School’s Amsterdam program had an average of 340 students participating per year in 2015/2016, with 60% girls.
• In total, 24 Sunday classes were held with a focus on science or health, providing direct benefits to 127 students in the science module and 139 students in the health program.
• Within the health module, students learned about diverse opportunities for health careers requiring different levels
Students build bottle rockets in the astronomy class at the Weekend School, with a hand from Ylann Schemm, Director of the Elsevier Foundation. The class focuses on experiential learning and asking questions.

IMC Weekend School alumna Maryam Lyousoufi (23) teaches current students (10-14) about the field of medicine. Every year students have the chance to discover and learn about different healthcare professions as part of their 3-year long curriculum, across more than 15 subject areas. A growing number of alumni are now providing guest lectures about their own field of study or work, becoming important role models for the next generation of budding doctors, nurses, pharmacists and technicians.

First year IMC Weekend School students (ca 11 years old) attend a hands-on class at an Amsterdam hospital. The 4 part health module included EMT services, ultrasounds, MRI’s, how a pharmacy works, giving medicine intravenously, drawing blood, what a pediatrician does and how diabetes is diagnosed.

Media Coverage
- Children peering into their futures — this is rocket science (Alison Bert, December 02, 2016)
- Immersing children in the world of science and medicine (Domiziana Francescon, September 15, 2016)
- Empowering Unexplored Knowledge (Youtube)
I felt that there was an opportunity to throw our doors open and make such facilities and support available to the local community. Our goal was to give creative young people the right outlet and encourage them see the potential in their ideas.

MAGGIE DALLMAN
Associate Provost of Academic Partnerships and Professor of Immunology
Imperial College London

Description
Imperial College London’s soon to be launched “White City Maker’s Challenge” pioneers a new form of outreach aimed at inspiring teenagers from disadvantaged, urban backgrounds to experience and interact with science through their own creativity. The program is based in White City where ICL is building their new biomedical campus, and aims to engage local secondary students in a creative, innovative and entrepreneurial program designed to take an idea to working prototype, and potentially beyond. The Maker’s Challenge is situated in the larger “Invention Rooms” center which also houses ICL’s advanced hackspace and a community engagement space.

Goals
• Establish an innovative program that gives young people from disadvantaged backgrounds the confidence in their ideas and the skills to turn them into reality.
• Support local schools and teachers in raising the aspirations and broadening the horizons of their students in STEM subjects within and beyond the curriculum.
• Develop a replicable model of hands-on educational outreach that can be expanded and adapted for other schools and communities.
• Inspire the wider local community in the wonder and importance of science, engineering, medicine and business.

Milestones
• Mega Maker Challenge: the ICL team conducted a two-day induction and skill development workshop, an afterschool club, coaching, a project development workshop and a final Maker Showcase Event. The Challenge equipped 14 to 18 year olds with core making and vocational skills to develop their design concepts into final products. When fully established, the Maker’s Challenge will benefit more than 100 young people from London’s most disadvantaged communities every year, inspiring 300 students overall in the art of creating and making.
• The College’s Community Engagement Program has worked to strengthen relationships with White City resident groups, businesses and other local partners through community outreach events, including: the W12 Festival, the Community Christmas, the Imperial Fringe: Science and Sport Day, and the ICL Drone Club Pilot Project. As part of the wider approach to community engagement in White City, ICL has also launched a community newsletter disseminated to more than 15,000 addresses within a mile radius of the White City Campus.

Challenges
The Maker’s Challenge Program has been delayed to coincide with the opening of the new Reach Out Makerspace for the larger White City community. The delay has allowed ICL to develop a more integrated strategy for engagement and working across ICL’s diverse departments, ensuring the best use of resources, especially in engaging academics and student ambassadors.

Future plans
The formal ICL launch and opening event for Maker’s Challenge will be held on November 21st at the White City Invention Rooms.

Funding
$100,000 per year
3 years, 2016-2018

In kind resources
Once the Maker’s Challenge launches in 2017, London based Elsevier colleagues will be recruited to donate their time to coaching teenagers in the different program offerings.
Professor Maggie Dallman (center) is a staunch supporter of science outreach in London schools. She has expanded Imperial College London’s longstanding outreach program to include the innovative Maker Challenge Program in their new White City biomedical campus. The Makers Challenge is an experiential learning program for underserved teens focusing on technology, innovation and literally “making things”.

Media Coverage

- Imperial College London designs an invention space for disadvantaged teens (Ylann Schemm, February 08, 2017)

Local White City students and the Imperial College student drone society meet in the newly completed Makers Challenge center, a space now filled with 3D printers, sewing machines, industrial design facilities — in short, everything needed to create prototypes and boost creativity.

Students participating in Imperial College London’s traditional science outreach program for schools. The soon to be launched Makers’ Challenge will offer innovation-focused after school and summer programs targeting 14-18 year olds in the White City neighborhood, where ICL has recently relocated their biomedical campus.
“The beauty of this program is that not only do kids learn critical STEM skills, which are increasingly important for many types of jobs, but they also learn that STEM professionals can look just like them. They meet, often for the very first time, real live scientists and engineers who are young, passionate, and come from diverse backgrounds. Suddenly, they start to see that not only is STEM interesting, but it’s something that they can do, too.”

MEGHAN GROOME
Senior VP Education
New York Academy of Sciences

New York Academy of Sciences
After-School STEM Mentoring Program

Description
To thrive in our technology and information driven economy, our next generation of students need viable STEM skills. The New York Academy of Sciences, one of the oldest and most distinguished US organizations of scientists and researchers, offers the After-School STEM Mentoring Program to New York’s most underserved children, ensuring that they are exposed to the inspiring world of STEM. The Elsevier Foundation partnership aims to support the NYAS’ engagement with funds, volunteers and additional support for the early career scientist mentors.

Goals
• Provide vital STEM programs to middle school students throughout New York City’s five boroughs and beyond.
• Support early career scientists (graduate students and postdoctoral fellows) with a focus on career exploration, professional development and field-specific training.

Milestones
• The Afterschool STEM Mentoring Program provides children with a unique opportunity to learn from a real science professional and to actively participate in science related activities. Since 2010, it has placed over 1000 scientists, reaching 11,750 middle school students, totaling more than 151,800 hours of hands-on mentoring.
• The Scientist-in-Residence Program pairs young scientists to conduct in-school research with over 44 scientists working with teachers on a range of projects in 22 schools around New York City.
• Hosted two STEM Bonanzas and expanded Family Science Nights to all of New York City’s five boroughs:
  o Family STEM Bonanza hosted 15 to 20 middle school student groups from afterschool programs around NYC to demonstrate the result of their learning from mentors as well as to provide families with valuable information about STEM enrichment available in their neighborhood.
  o Family Science Nights gave an opportunity for students to get excited about science, technology, engineering and mathematics while spending quality time with family. On average, 100 people came to each of the 2-hour sessions.
• Developed the “Elsevier Professional Development Series” for Science Alliance members which reaches more than 7000 scientists to network across institutions and disciplines. The Elsevier series includes panel discussions on scientific careers in publishing and how to hone peer review skills.
• Strong engagement between NYAS and Elsevier staff to recruit volunteers for the student engagement programs.

Future plans
The next “Elsevier Professional Development” lecture in September 2017 will focus on the key findings of the recent “Gender in the Global Research Landscape” report.
Mid-winter NYAS STEM campers from 5th-8th graders practiced their skills through hands-on activities alongside scientists from some of New York City’s leading institutions. They tested the laws of physics as they tried to keep a Styrofoam ball afloat using their breath. They learned teamwork and problem-solving experience to increase their skills in STEM areas.

Mid-winter NYAS STEM campers are excited about the science behind their Scratch games. Scratch is a programming language and online community that enables users to create their own interactive stories, games and animations.

NYAS STEM program students immersed in their coding projects during “Hack Your Health” lessons, mentored by young scientists and engineers. This program used an innovative approach to help students learn about their health and coding in an engaging way.

Media Coverage

- Elsevier Foundation’s new programs support STEM diversity and developing country partnership (Ylann Schemm, February 01, 2016)
The determination, commitment and enthusiasm of these five women are an inspiration to us all. This award celebrates their excellent science and demonstrates that their hard work has had an impact both regionally and internationally, despite the difficult local conditions.”

JENNIFER THOMSON
President
Organization for Women in Science in the Developing World

Description
Women scientists in developing countries often suffer from isolation, lack of role models and visibility. For the past seven years, the Organization for Women in Science (OWSD) has collaborated with the Elsevier Foundation responding to these issues through a unique program for outstanding women scientists. Five awards are given annually, targeting Latin America and the Caribbean, the Arab region, Sub-Saharan Africa, Central and South Asia, and East and South-East Asia and the Pacific. The prizes rotate annually between three areas: Biological Sciences: Agriculture, Biology and Medicine; Engineering Sciences: Engineering, Innovation and Technology; and in 2018 Physical Sciences: Chemistry, Math and Physics. In addition to the $5,000 cash prize, travel and accommodation expenses are provided to attend the American Association for the Advancement of Science annual conference, where they are awarded in front of a distinguished audience of international scientists.

Goals
The Awards aim to increase the number and influence of women doing high-level science in the developing world. The premise is simple: the more diverse the pool of scientists, the better the science will be. Women scientists often make life-changing contributions on local, national and international levels, identifying problems and finding solutions that others have not considered. They provide long-term improvements to the lifestyle and economies. Previous winners underscore the Awards’ impact in enhancing their past work and creating opportunities for collaboration and support. Awardees become influential role models for young women who struggle with the question of whether they should remain in an environment that is often hostile to their needs and experience.

Milestones
The Awards have provided value-added career development and visibility opportunities for high-performing women scientists in developing countries. Their recognition at the AAAS has resulted in:
• Increased scientific excellence: invitations to present on international and regional panels, to collaborate on publications and visit laboratories.
• Specialist training: presentation skills and techniques.
• Additional funds: a supplementary cash award of $2,500 per awardee has been made by private donors (former President of the AAAS, Dr. Gil Ommen) since 2014.
• Improved networking: awardees often have personal meetings with influential players on the world stage, including national ambassadors, ministers, the AAAS president and vice president, and heads of department of U.S. universities.
• Enhanced visibility: interviews in the U.S. with local, national and international newspapers, radio stations and television channels. The impact of the award in the awardees’ home countries is notable: Etheldreda Nakimuli-Mpungu, 2016 winners from Uganda, received a medal of honor and a personal handshake on International Women’s Day from the Ugandan President.

Future plans
• A platform on the OWSD website will display previous winners, providing visibility for research and career.
• Next year will be the final year in the current cycle. OWSD has expressed a strong interest in continuing to collaborate with the Elsevier Foundation to develop the next cycle of awards. They would also like to create an Awardee Alumni Group to ensure that past awardees continue to benefit from the OWSD-Elsevier Foundation network.

Funding
$60,000 per year
3 years, 2016-2018

In kind resources
• The award winners are provided with access to Elsevier products, ScienceDirect and Scopus.
• Resources at Elsevier offices are made available wherever possible during the preparation of the winner’s to publicly accept their awards; Elsevier colleagues also provide additional communications trainings.
• Elsevier’s Global Communication team donates substantial time from their PR agencies dedicated to pitching the winner’s and their accomplishments to major news outlets.
Dr. Grace Ofori-Sarpong, Associate Professor at the University of Mines and Technology in Ghana, accepts the Award for her work in microbial-mineral interaction, recovery of precious metals, water quality monitoring and acid mine drainage. When she first began teaching, she was the only woman engineer on the faculty.

Dr. María Fernanda Rivera Velásquez, recognized for her work on the identification of new reactive materials for the reduction of contaminant, in her lab at the Universidad Nacional de Chimborazo, Department of Environment and Physics, Ecuador.

OWSD President, Professor Jennifer Thomson, Dr. Felycia Edi Soetaredjo and Dr. Geraldine Richmond during the 2017 AAAS Award Ceremony in Boston. Dr. Soetaredjo, who received the award for her research on using biomass for environmental remediation and renewable energy, said she’s motivated by the desire to improve the environment of her country – and encourage young women to create better lives for themselves by pursuing science.

Media Coverage
- NPR features Elsevier Foundation winner as world’s most “unstoppable scientist” (Alison Bert, June 23, 2017)
- Nominations open for OWSD-Elsevier Foundation Awards for Women Scientists in the Developing World (Domiziana Francescon, June 20, 2017)
- What it means to be a woman in science in the developing world (Alison Bert, March 15, 2017)
- Women engineers to receive awards for innovative research in developing countries (Laura Schmitz, February 16, 2017)
- Translating life into science – 5 women tell their stories (Alison Bert, March 10, 2016)
- 5 biologists to receive Elsevier Foundation Awards for Women in Science at #AAASmtg (Ylann Schemm, February 10, 2017)
- 2017 OWSD-Elsevier Foundation Awards for Early-Career Women Scientists in the Developing World (YouTube)
The Gender Summits help improve policy efforts around the world to tackle gender problems in society by advancing scientific understanding of gender issues and creating consensus on how women and men can best, and equally, benefit from research and innovation.”

ELIZABETH POLLITZER
Executive Director
Portia Ltd and “architect” of the Gender Summits

Description
The Gender Summit is not a conference but a platform for dialogue and change to improve the quality of research and the relevance of science to society, wherever biological and socio-cultural differences between females and males influence outcomes. Scientists, gender scholars, policy makers and other stakeholders are deeply involved in the process, examining new evidence and establishing consensus where improvements are needed. To support this critical process globally, the Elsevier Foundation has partnered with Portia Ltd to help steer the ongoing development of the Gender Summits. Since it was first established in 2011, 5 regional platforms are now active in Europe, North America, Africa, Asia Pacific, Latin America. The dialogue has grown to include not only research but also the Sustainable Development Goals and inclusive innovation.

Goals
• Advancing understanding and evidence of when, why and how biological and socio-cultural differences between females and males impact research and innovation outcomes, and how this results in different effects for women and men.
• Promoting the benefits of applying a gender lens to policy initiatives looking towards science as a source of solutions to societal and environmental challenges.
• Developing and connecting Gender Summit communities and regional actors for more effective and sustainable ways for research and innovation to improve societal and environmental wellbeing.

Milestones
• 12 Gender Summits have taken place over the last 6 years, creating a global community of 6000 experts and practitioners. This has led to a growing recognition of the importance of the Gender Summit platform and its mission by research funders and leading science institutions across the world.
• Growing network of connections between Gender Summit and other key players whose policy and research agendas include concerns over gender issues, e.g. Sustainable Development Solutions Network, World Science Forum, Global Research Council, UNESCO, African Union Commission

Challenges
• Responding to regional specificities in terms of needs and opportunities, e.g. prioritizing gender issues in research and innovation that help advance inclusive socio-economic development vs. using gender dimension to promote sustainable technological innovation.
• Enabling interdisciplinary, inter-sectoral and international collaborations on shared concerns, e.g. advancing gender research for specific SDG targets.
• Identifying scientists, gender scholars and policy makers who could contribute to and benefit from participation in the Gender Summit platform in underrepresented regions and countries.

Future plans
• Develop a Gender Summit platform for the Arab World: a mini-Gender Summit will be held as side event to the World Science Forum 2017, hosted by Jordan
• Establish opportunities for future Gender Summits in Asia Pacific (Malaysia, China and Singapore), Africa (engaging with the African Union Commission) and Latin America
• Consolidate experiences and knowledge: (i) a special issue of Interdisciplinary Science Reviews (March 2019); (ii) second SDG report and focused input to the activities of SDSN; (iii) raising awareness of gender issues in the context of the 4th Industrial Revolution.
L to R: Elissavet Vozmerg-Vrionidi, (Member of European Parliament and of the EP Committee on Women’s Rights and Gender Equality-FEMM), Chiara Tamburini (Acting Head of Unit FEMM Committee, European Parliament), Elizabeth Pollitzer, Miyoko O. Watanabe (Deputy Executive Director, Japan Science and Technology Agency) and Kumie Inose (Vice-President, Science Council of Japan) at the European Parliament, where the opening session of the Gender Summit 9 Europe was held in November 2016.

Media Coverage
- Asia-Pacific Gender Summit aims to boost innovation in research through diversity (Alice Atkinson-Bonasio, June 12, 2017)
- Gender Summit Europe: ‘Stand up and take action’ (Elizabeth Pollitzer, January 07, 2016)
- Gender Summit Europe: Using gender to shape the societal impact of science (Elizabeth Pollitzer, October 20, 2016)

After speaking about the Nordic cooperation on gender equality measures at the Gender Summit 7 Europe, Prof. Marja Makarow (right), Vice-President for Research at the Academy of Finland and Chair of the Board at NordForsk, talks with Dr. Gerlind Wallon, Deputy Director of European Molecular Biology Organization (EMBO), a past Elsevier Foundation New Scholars grant recipient.
“GenderInSITE is enormously pleased to be working with the Elsevier Foundation to promote the visibility of women’s roles in science and innovation for sustainable development. Through two strategic workshops on gender in higher STEM education and gender in innovation, GIS strives to advance the understanding of policy and decision makers about the transformations needed to create a more gender-equitable path to meeting the SDG targets.”

ALICE ABREU
Director
GenderInSITE

Description
GenderInSITE is an international initiative to promote the role of women in science, innovation, technology and engineering (SITE). The main goal is to increase the number of STI policies and programs globally that take gender into account. GenderInSITE has held 2 thematic workshops with support from the Elsevier Foundation. The April 2017 workshop in Buenos Aires focused on gender integration in higher STEM education, while the September 2017 workshop in South Africa will focus on gender and innovation.

Goals
• Short-term objective: enable policy makers to meet with scientists, researchers and other stakeholders to share ideas for applying a science and gender lens to specific SDGs in a local and regional context.
• Medium-term goal: produce and disseminate recommendations and guidelines to target organizations and stakeholders, based on the findings and conclusions of the workshops.
• Long-term objective: work with policymakers to adopt the GenderInSITE guidelines.

Milestones
• Enhance GenderInSITE’s reach and make its presence in different regions more effective by tailoring activities to fit local contexts. This can be achieved through two active and effective Regional Focal Points in Latin America and the Caribbean, and Southern Africa.
• Developed activities to lobby for gender equality in participation and advancement in SITE for a sustainable future, and to advocate for STI-based development solutions that meet the needs of women as well as men.
• Facilitated 14 distinguished researchers from Latin America, Europe and North America to share findings from existing initiatives to mainstream gender equality in academic institutions, further analyzing how this process can have an impact on achieving the SDGs.
• Stressed that university leaders as well as the academic community at large need a better understanding of how gender equality can improve the quality and relevance of knowledge creation, as well as better incentives to prioritize gender mainstreaming in their institutions.
• Proposed recommendations from the experts: incorporate gender equality in the ranking of universities carrying academic esteem and influence in external funding; critical need for greater scrutiny of the theoretical conceptions and analysis of gender itself, as well as the assumptions and values inherent in the policy mechanisms used to address it.
• Highlighted the need to move beyond adding more women to traditional and gender-biased STEM education to address bigger challenges.

Future plans
GenderInSITE has received renewed support from the Swedish Development Agency, covering two years of programmatic funding in 2018 and 2019. Support from the Elsevier Foundation greatly influenced GenderInSITE’s future activities, helping to map the way to an effective work agenda and bring a gender and science lens to STEM education and innovation. Additional projects include:
• Drafting a collective “manifesto for change”.
• A full report including recommendations from the workshop will be available on the GenderInSITE and UNESCO Chair in the Latin America region.

Funding
$20,000 per year
2 years, 2016-2017

In kind resources
While funding from the Elsevier Foundation has been provided for two GenderInSITE workshops in 2016 - 2017, Elsevier has provided support through travel and expertise to GenderInSITE since it was launched in 2012.
The GenderInSITE-Elsevier Foundation workshop “Integration of gender perspectives in science and technology in higher education: Contributions to the advancement of the SDGs” was held in Buenos Aires in April 2017. Organized by Gloria Bonder, the GenderInSITE regional focal point for Latin America and the Caribbean, the workshop invited participants to share their expertise and lessons learned from existing efforts to incorporate gender in STEM curricula and institutional practices.

**Media Coverage**

- In higher ed, it’s not enough to “fix the numbers” of women in STEM (Gloria Bonder and Erin Johnson, June 20, 2017)
“With the Innovate for Life Fund we want to tap into the innovative solutions and business drive of creative African entrepreneurs and help them to bring their health solutions to scale.”

GITHINJI GITAHI
Group CEO
Amref Health Africa
4. Technology for Development

We recognize that technological solutions are increasingly playing a role in helping the world solve some of the world’s greatest challenges. The Elsevier Foundation is working to develop a new program area which will harness the power of technology and big data for good. Our goal is to support projects enabling data scientists to contribute their skills to tackle some of the toughest issues outlined by the UN Sustainable Development Goals.

**Datakind**

Nonprofits don’t always realize the power of the data they have and how it can be tapped to deliver powerful insights into the goals they are trying to reach. Datakind is an organization which works with both data scientists and social sector experts to address some of the world’s biggest challenges. The Elsevier Foundation is supporting two Datakind initiatives with $75,000: one high-impact DataCorps Disaster Relief project and a London DataDive matching scientists with 4 nonprofits in a marathon weekend of innovative data crunching.

**Amref**

Supporting African entrepreneurs to develop home-grown innovations for health: this is the goal of Innovate for Life, an initiative launched by Amref Flying Doctors. With a grant of $50,000, The Elsevier Foundation is proud to support Amref’s goal to help early-stage entrepreneurs developing novel technological solutions. The Fund aims to bridge the gap between African entrepreneurs and international investors by offering deep subject matter knowledge, strong networks and access to funding.
“We’re thrilled to be partnering with the Elsevier Foundation on both a weekend DataDive to help UK charities gain insight into their data and prototype solutions as well as a long-term DataCorps project helping the World Bank use satellite imagery to protect and promote recovery from natural disasters in underserved rural communities.”

JAKE PORWAY
Executive Director
DataKind

Description
Software, sensors and mobile phones produce a goldmine of data. Today companies are working with data scientists to get the most out of this data to serve their customers better. DataKind is a unique nonprofit that works to harness big data for good—literally to coach nonprofits in how to leverage this new resource in their efforts to move the needle on the SDG’s. By working with teams of international scientists, DataKind is able to solve algorithmic puzzles for organizations dedicated to giving back. The Elsevier Foundation has committed to support two projects: a $50,000 longer term DataCorps project to support the World Bank’s Global Facility for Disaster Reduction and Recovery and a shorter term DataDive project for $25,000 supporting four nonprofits over a long weekend.

DataCorps
The World Bank Disaster Recovery project taps big data scientists over 6-9 months to analyze high resolution satellite imagery to create a scalable algorithm identifying rural areas susceptible to large scale natural disasters. The project will scale up a Kenyan pilot to include many developing countries. The DataCorps team will highlight high-resolution satellite imagery, creating a scalable algorithm distinguishing between tin and thatched roofs to identify rural areas susceptible to large-scale natural disasters. When a family rises above the most abject poverty, the first investment they usually make is to secure shelter or tin roofs. Development experts consider roof types a reliable indicator of the greatest levels of vulnerability. The DataCorps project will recruit data scientist volunteers from around the world to investigate this problem over the course of 9 months.

DataDive
A DataDive is a high energy, marathon style 48-hour event where nonprofits work with teams of 50-150 data scientists, developers and designers to use data to solve key problems in those communities. DataDives inspire community events and invite the brightest minds in data science, social change and technology to work in teams. They analyze, visualize and mashup fascinating data sets to give their partner organizations initial insights or prototypes to inform their work and create real world change. Participating in a DataDive serves as a unique opportunity for attendees to learn and test out new skill sets, build cross-industry connections, and utilize their talents to produce actionable, meaningful results for mission-driven organizations.

Goals
• Expand the global community of capable data science professionals.
• Build and refine DataKind solutions to create efficiencies in solving substantial, compelling issues.
• Provide opportunities for Elsevier employees to contribute their unique skills to support humanitarian causes and learn new techniques from across industries to aid in their ongoing work while underscoring support of UN Sustainable Development Goals.

Funding
DataCorps: $50,000 per year
1 year, 2017
DataDive: $25,000 per year

In kind resources
For both projects, Elsevier volunteers will offer their time and skills.
Participants at the DataKind Chapter Summit 2015; UK Director Emma Prest (center foreground) is working with the Elsevier Foundation team to hold a London DataDive in collaboration with UCL in 2017.

Participants at the Bill & Melinda Gates Foundation DataDive - Seattle, August 2016. Analysts, statisticians, data scientists, coders, hackers and designers used data to unravel tough questions and prototype new solutions to help people lead healthy, productive lives.

DataKind staff and volunteers kicking off a DataDive, where over 100 volunteer data scientists came together with #GivingTuesday experts to analyze data on philanthropic giving in the U.S.
Amref

Innovate for Life

“We believe strongly in Amref’s vision and the creative potential of Africa’s youth. With our longstanding commitment to improving global health, we recognise that the Innovate for Life Fund bridges a real gap -stimulating localised tech driven health solutions for and by Africans.”

GITHINJI GITAHI
Group CEO
Amref Health Africa

Description
An increasing number of African countries are politically stable, growing economically with robust internet and the youngest populations in the world. These are ideal conditions for creating new markets and generating investors’ interests. The challenges are not small however. Healthcare systems are highly regulated and under great pressure from their burgeoning populations. What little investment capital there is, goes mainly to energy and agriculture.

So how do talented African health entrepreneurs evolve their ideas in environments with few funders and weak networks? Innovative for Life, Amref Health Africa’s new accelerator for East African health entrepreneurs addresses this gap by offering skills building, networks and access to seed funding. The Elsevier Foundation has awarded a one-time $50,000 grant to support this “seed lab”. In four years’ time, Innovate for Life aims to evolve from an Accelerator program to a private equity fund.

The innovate for Life Fund
In May 2017, Amref Health Africa launched an ambitious and innovative initiative: The Innovate for Life Fund. This fund supports African entrepreneurs in the development of innovative, sustainable and scalable solutions for a healthy Africa. Via Amref they have access to detailed knowledge about healthcare in Africa and Amref’s extensive local and international network of stakeholders, donors and investors.

Amref will cooperate with the Grassroots Business Fund, an experienced impact investor with over 10 years of experience in Africa and Asia. The first Accelerator program will be held in September 2017 in Nairobi, Kenya.

Accelerator programme
At present, the fund is set-up as an Accelerator programme, but the objective is to grow into a private equity fund in the field of healthcare in four years’ time. The fund specifically focuses on the ‘missing middle’: entrepreneurs with employees that are too large for microcredit, but (as yet) too small for traditional commercial investors. In this programme, Amref cooperates with the Grassroots Business Fund, an experienced impact investor with over 10 years of experience in Africa and Asia. The first Accelerator programme will be held in September 2017 in Nairobi, Kenya.

Funding
$50,000 per year
1 year, 2017

In kind resources
We will be exploring opportunities to donate time and resources from Elsevier employees once Innovate for Life’s Skills Lab is launched with 6 entrepreneurs.
The Innovate for Life Fund was launched at The Next Web Conference, Europe’s leading tech festival held in Amsterdam, The Netherlands, in May 2017.

Some of the innovators during the Innovate for Life hackaton session at the 2017 AHAIC event held on 7 to 8 March 2017.

Media Coverage

• New Investment Fund for African Entrepreneurs in Health care (Press release, May 19, 2017)

Dr. Githinji Gitahi, CEO of Amref, and Dutch Prince Constantijn van Oranje celebrating the launch of Innovate for Life Fund in Amsterdam.

The Innovate for Life Fund was launched at The Next Web Conference, Europe’s leading tech festival held in Amsterdam, The Netherlands, in May 2017.
To encourage generosity and community involvement, the Elsevier Foundation provides matching funds to charitable organizations that Elsevier employees personally support. Each year, the Elsevier Foundation Matching Gift Program earmarks $200,000 to match employee’s individual and group donations to eligible nonprofit organizations around the world. The Fund is also used to support global disaster relief efforts championed by Elsevier colleagues. In 2016, over 300 charities were supported by employees across 15 countries. By matching employee gifts, both employee and Foundation resources are leveraged for maximum community benefit, ensuring that colleagues feel connected to the Elsevier Foundation.

In 2017, the Matching Gift Fund began working CyberGrants, a new vendor, to create a more streamlined user experience within the Matching portal. The new platform will greatly speed up both the US and international matching process, enabling a monthly payout, rather than a quarterly one. In the fourth quarter of 2017, the Matching Gift program will also be able to offer US payroll giving matches. In 2018, the Foundation team will investigate the feasibility of payroll donations in other locations and direct credit card giving which will offer instantaneous match options.

This chart shows the total amount of donations reported by employees and matched by the Elsevier Foundation.
Longtime Elsevier employee, Gina Walker crosses the finish line after a 60km walk for breast cancer charity, “A Sister’s Hope”. Over the past 6 years, Elsevier volunteer Gina Walker has been a staunch advocate tapping the Matching Gift Fund to help her raise over $18,000 for the charity in vital funding for research in the Netherlands and the US.

“Often new colleagues aren’t aware of it until a disaster hits: floods in Chennai, Latin America and New Orleans, the recent earthquake in Italy… We see the Matching Gift as a vital service and employee benefit, making it possible for colleagues to play a positive role in their local and global communities,” said Ylann Schemm, Director of the Elsevier Foundation. “Whether colleagues are cycling from London to Amsterdam or holding book sales, bake sales, fashion days, pub quizzes or simply giving quietly, under-the-radar, Elsevier employees’ generosity is overwhelming and their fundraising zeal impressive.”
Media Outreach

Videos
Since 2008, the Elsevier Foundation has produced over 35 short videos featuring our projects and showcased on our dedicated Youtube channel. Highlights from our 2016–2017 videos include:

• 2017 OWSD-Elsevier Foundation Awards for Early-Career Women Scientists in the Developing World (Youtube)
• Empowering Unexplored Knowledge (Youtube)
• Creating an Ethiopian National Repository (Youtube)
• 2016 Elsevier Foundation Awards for Early-Career Women Scientists in the Developing World (Youtube)

External coverage
Media outreach around our partnerships and projects claims a significant amount of the Elsevier Foundation’s time. The overarching goal of our outreach is to raise awareness around the issues we support and connect with our communities as directly as possible. With this in mind, we focus on a variety of outlets: traditional or “earned” media, a steady series of articles in Elsevier Connect, Elsevier’s news magazine with a monthly readership of 150-200,000 unique visitors a month, as well tapping our social media and website channels and delivering short videos. In 2016 and 2017 to date, we published 30 articles on Elsevier Connect: 16 in 2016 and 14 in 2017 half of which were written by external Foundation authors.

Traditional media remains challenging for a Foundation given our focus on “good news” stories which have a hard time competing for the media’s attention. However, every year, our OWSD-Elsevier Foundation Women Scientists in Developing Countries Award program do manage to receive major attention from top tier mainstream media. In our continuous efforts to reach journalists, we disseminated eight press releases over the course of 2016 and 2017, one of which was translated into German Highlights include:

• She May Be The Most Unstoppable Scientist In The World (NPR, Michaeleen Doucelf, June 20, 2017)
• Mom Inspires Daughter To Be A Doctor Who Really Makes People Better (NPR, Maanvi Singh, February 25, 2016)

National Public Radio’s global health and development blog, Goats and Soda, published profiles of our award winners over the past two years. This year, they featured 2017 Psychiatric epidemiologist, Dr. Etheldreda Nakimuli-Mpungu from Makerere University in Uganda and Dr. Eqbal Dauqan, a biochemist from Yemen, who saw their stories of struggle, passion and success shared with a global audience.

Social Media
Social media brings its own rewards and special challenges. Maintaining diverse channels (Twitter, Facebook) in addition to a dynamic website is labor intensive for a small team and calls for prioritization going forward. The channels which we have developed provide us with a direct connection to our communities. Stats as of August 2017:
• Twitter @ElsFoundation currently has 2,043 followers, 934 likes and a total of 1,742 tweets.
• Our Elsevier Foundation Facebook page has 3,695 likes and 3,685 followers.

Website
We aim to maintain a dynamic website, posting content on a daily basis. Our website is supported with WordPress, an open source content management system, incurring few costs beyond hosting and occasional wireframe updates. However, in 2016, to ensure ongoing relevance and discoverability, we relaunched the Elsevier Foundation website with new wireframes and content to ensure its compliance with responsive design and to fully reflect our new programs. Stats available for the period 30 July 2016-30 July 2017:
• 35,000 users, a number indicating the users who have initiated at least one session.
• 98,000 pageviews.
• 71% new sessions, a percentage showing the increment of first time visits in the last year.
In May, we collaborated with Elsevier’s Chemistry journals’ marketing managers to create a social media campaign featuring the Elsevier Foundation Green and Sustainable Chemistry Challenge leading up to the Green and Sustainable Conference in Berlin in May 2017. Once the winners were announced, we continued to conduct outreach celebrating their accomplishments with photo and quote filled tweets. The graph’s spike in May 2017, reflects the announcement of the winners.

Dr. Eqbal Dauqan, 2014 Elsevier Foundation Award for Women in Science in the Developing World winner, in her lab at University Kebangsaan Malaysia, where she conducts specialized research in food science, natural antioxidants and organic chemistry.
## Financial Overview

### 2016-2018 Program Allocations

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<tr>
<th>Category</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
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<tr>
<td><strong>HEALTH &amp; INNOVATION</strong></td>
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<td><strong>MATCHING GIFT</strong></td>
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*Allocation per September 1st, 2017; $200,000 earmarked for 2017*

*Matching gift amount includes $88,750.*
Dr. Xuetao Cao is the current President of Chinese Academy of Medical Sciences and Peking Union Medical College. He was born in 1964 and received both his M.D. and Ph.D degrees from the Second Military Medical University (1986 and 1990, Shanghai, China). He became Professor in Immunology in 1993 at the Second Military Medical University and the Director of the Institute of Immunology at the same University in 2001. He is the Founder and Director of the Institute of Immunology at Zhejiang University since 2000. He has also been Professor and Director of the National Key Laboratory of Medical Immunology since 2006. Dr. Cao was elected to the Chinese Academy of Engineering in 2005, German Academy of Sciences in 2013, French Academy of Medicine in 2014, EMBO in 2015 and UK Academy of Medicine in 2016. He was President of Chinese Society for Immunology for 8 years (2006.10- 2014.10), President of Federation of Immunological Societies in Asia and Oceania FIMSA (2012.5-2015.6) and President of Global Alliance for Chronic Diseases GACD (2013.12-2015.12). He is currently the Secretary General of Chinese Society for Immunology (2014.10-), and Secretary General of FIMSA (2016.6 - ).

Dr. Cao has won many awards in recognition of his scientific achievements and dedication to public services and China’s medical research and education. He is widely recognized as a thought leader in promoting innovative and cross-disciplinary research at the national level and spearheads a number of initiatives. He is also proud to act as a bridge between China and the world on many occasions and has worked tirelessly to encourage international collaborations and enhance the global visibility of China’s own research and development.

Nikunj Jinsi joined IFC in 2003 and combines over 20 years of experience in various industry sectors, having worked and lived in Europe, Asia, Latin America and the US. Mr. Jinsi blends operational, entrepreneurial, investment banking and over 15 years of emerging market private equity experiences with unique global perspective on several industries. At IFC, Mr. Jinsi has led over 18 investments for which IFC acted as a (co-) lead and involving other leading private equity and strategic players in Asia, and currently sits on the boards of six Asian companies. Mr. Jinsi also is involved with IFC’s LP investment program for venture funds in Asia, having evaluated several fund investment opportunities in China, Vietnam, Indonesia, Singapore and India, and sits on the Advisory Board of a leading China venture fund, and has been responsible for several fund investments in India. Prior to joining IFC, Mr. Jinsi was Managing Director and Head of the Singapore office for one of Asia’s leading venture funds where he managed the team making investments in South East Asia and India, and was also responsible for managing several Asian LP relations. Prior to this, Mr. Jinsi spent 4 years in the Asian investment banking industry providing M&A and corporate finance services to clients throughout the region. In addition, Mr. Jinsi was the co-owner of South East Asia’s largest independent marketing communications agency, which was successfully sold to Omnicom, the largest media marketing group in the world, in 2002. Mr. Jinsi obtained an MBA degree from Stanford University, attended as a Fulbright Scholar and has an MSc. degree in Electrical Engineering from Delft University of Technology, the Netherlands.
Beverly Malone’s tenure at the NLN has been marked by a retooling of the League’s mission to reflect the core values of caring, diversity, integrity and excellence, and a focus on advancing the health of the nation and the global community. She was ranked amongst the 100 Most Influential People in Healthcare by Modern Healthcare magazine in 2010 and 2015; and in 2016 she claimed 39th place amongst leading policy-makers, activists, health care professionals and corporate figures in health care, insurance and pharmaceutical industries. Within the last several years, Dr. Malone was elected to the Institute of Medicine and tapped to join the board of the Kaiser Family Foundation. Dr. Malone served on the Institute of Medicine’s Forum on the Future of Nursing Education, contributing to IOM’s groundbreaking report, “The Future of Nursing: Leading Change, Advancing Health,” and on the Advisory Committee on Minority Health, a federal panel established to advise the secretary of Health and Human Services. Her career has mixed policy, education, administration and clinical practice. Dr. Malone has worked as a surgical staff nurse, clinical nurse specialist, director of nursing and assistant administrator of nursing. In 1996, she was elected to two terms as president of the American Nurses Association. In 2000, she became deputy assistant secretary for health within the US Department of Health and Human Services, following 4 years of service on President Bill Clinton’s Advisory Commission on Consumer Protection and Quality in the Healthcare Industry. Prior to joining the NLN, Dr. Malone was general secretary of the Royal College of Nursing, the United Kingdom’s largest professional union of nurses, from June 2001 to January 2007. She also served between 2002 and 2006, as a member of the UK delegation to the World Health Assembly; of the Commonwealth Nurses Federation; and of the Higher Education Funding Council for England.

Cosmas Milton Obote Ochieng is the Executive Director of ACTS. Dr. Ochieng has held various positions in a number of university, research, development and conservation organizations around the world. These include IUCN (International Union for the Conservation of Nature); Technical University of Denmark (DTU - UNEP Risoe Centre); Lancaster University (Lancaster Environment Centre); Ecoagriculture Partners, IFPRI (International Food Policy Research Institute); ActionAid International (UK); IDRC (International Development Research Centre); Kenyatta University and IIRR (International Institute of Rural Reconstruction). Dr. Ochieng has conducted research, policy analysis and teaching in the areas of agriculture and food security; sustainable land, water and energy ecosystems management; biodiversity and natural resource governance; national systems of innovation; international trade and development; green economy and climate change; ICTs and development in Africa; and political economy of African agrarian development. Dr. Ochieng holds a Bachelor of Arts (First Class) Honours Degree from Kenyatta University (Kenya), a Masters in Development Studies (Distinction) from Cambridge University (UK) and a DPhil (Doctor of Philosophy) in Development Studies from Oxford University.
Prof. Geraldine Richmond is the Presidential Chair in Science and Professor of Chemistry at the University of Oregon. Her research has relevance to current issues in energy production, environmental remediation and atmospheric chemistry. Her teaching activities in the classroom and beyond focus on science literacy, science policy and building a strong and diverse science and engineering workforce in the U.S. and globally. Throughout her career she has been actively involved in efforts to increase the number and success of women in science and engineering. Richmond is a member of the National Academy of Sciences, the American Academy of Arts and Sciences and is a Fellow of the American Chemical Society (ACS), the American Physical Society (APS), the Association for the Advancement of Science (AAAS) and the Association for Women in Science. Richmond recently finished her term as President of AAAS and is currently the Chair of the Board of AAAS. She is also currently serving as a member of the National Science Board (President Obama appointee. She is the founding and current director of COACh, a grass-roots organization formed in 1998 that has helped in the career advancement of thousands of scientists and engineers in the U.S., Asia, Africa and Latin America.
Suzanne BeDell joined Elsevier as Managing Director in September 2010. She has been a book publishing and information industry leader for almost 30 years focusing on the intersection of print and digital delivery for much of her career. Prior to joining Elsevier, she worked for ProQuest (a library aggregator) for 9 years where she led the development of the largest offering of aggregated books and journals for academic libraries. Before that, Suzanne was Senior Vice President of Internet Products at Thomson Healthcare and Director of Electronic Product Development for Mosby. She also held a variety of positions in McGraw-Hill’s College Division, including publisher of Primis, the first electronic custom publishing system for textbooks.

Youngsuk ‘YS’ Chi is an international businessman and a leader in the media and technology industry, and currently serves Elsevier and RELX Group in several different capacities. In his primary role as head of Corporate Affairs for RELX Group, he is responsible for government affairs, corporate communications, corporate responsibility, and Asia strategy for Elsevier’s parent company. As non-executive Chairman of Elsevier, he works directly with governments, Elsevier customers and in industry associations worldwide. Mr. Chi also serves as President of the International Publishers Association, a global organization that represents the interests of more than 50 publishing industry association members from countries around the world. Early in his career, as Chief Operating Officer of Ingram Book Group, Mr. Chi founded Lightning Source, the first ever print-on-demand distributor and e-book services provider. After holding several senior executive positions at Ingram Book Group’s parent company, he became President and Chief Operating Officer of Random House. Mr. Chi has also earned widespread respect for his ability to work across cultures. As founding Chairman of Random House Asia, he led efforts to make Random House the first foreign trade book publisher with local language publishing in Japan and Korea. Mr. Chi has served on numerous charitable, educational and industry boards, including Princeton University, Korean American Community Foundation and McCarter Theatre. He is also a member of the Executive Committee of the boards of Association of American Publishers and International Association of Scientific, Technical & Medical Publishers.
VII. Appendix

John Danhaer
President
Clinical Solutions
Elsevier

Hannfried von Hindenburg
SVP
Global Communication
Elsevier

Dr. John Danhaer, Elsevier’s President, Clinical Solutions, is a prominent life-long leader and expert in health and the business of health. At Elsevier, he heads the Clinical Solutions business focused on improving patient outcomes through optimizing provider performance and patient engagement. Clinical Solutions is focused on delivering industry leading products focused on improving care at every stage in the patient journey.

Previously he headed Elsevier’s Education business and led the transformation from a traditional publisher to an educational digital solutions provider focused on improving student outcomes. Prior to joining Elsevier, John was President of the Schools of Health Sciences and Nursing at Kaplan. He brings a great depth of experience in digital media in health care and education from his time at Kaplan, Discovery Communications, and as executive vice president of WebMD and part of the early management team. John has deep domain expertise and a successful track-record in managing health information businesses. His experience, in both government and the private sector, extends beyond the US and into global markets, including assignments and experience with Japan, Pakistan, the UK and Australia.

Hannfried von Hindenburg is a seasoned communications professional with over 20 years of industry expertise spanning work across Asia, the U.S. and Europe. He has held numerous positions in both academia as well as journalism, publishing on international relations issues and appearing as an on-air anchor. Hannfried joined Elsevier in 2015 from the International Finance Corporation, a member of the World Bank Group, based most recently in Hong Kong where he oversaw communications for the Asian region.

During his time in Hong Kong and previously in Washington, D.C., Hannfried led initiatives focused on communications strategy, social media, thought leadership, corporate brand and reputation management. Prior to joining IFC, he spent nine years with Reuters in Germany, where he held positions in e-business development, as an editor and as a print and TV reporter in business, finance and economic policy.
Dr. Emilie Marcus is CEO of Cell Press and Editor-in-Chief of Cell. Emilie has been a major contributor to debates on issues facing scientific publishing. She has served as a panellist on open debates about alternative publishing models at Harvard and Brandeis Universities and on the publishing ethics panel at the 2006 Annual Meeting of the Council of Science Editors. She also is frequently asked to give talks at universities on the editorial process. She championed a new policy, launched in 2005, to make all content in the Cell Press journals – back to 1995 – freely available online 12 months after publication. Emilie is responsible for identifying and promoting new scientific and technological trends that will shape the future of scientific research. Under her editorship, Cell launched a new section called Leading Edge which expands the realm of content in the journal beyond primary research results to include dynamic and interactive commentaries, opinions and debates on global issues and policies that directly affect scientific research. Prior to joining Cell, Emilie had a successful graduate and postdoctoral research career, first at Yale University, where she received her PhD in Biology/Neuroscience in 1993, and then at the Salk Institute and University of California at San Diego. Emilie was also Editor of Neuron from 1998 to 2003. Emilie has also contributed to debate around the value and robustness of the peer-review process, handling potential conflicts of interest for authors, reviewers and editors, scientific misconduct and data manipulation, the impact of new information technologies (blogs, wikis and data and text-mining capabilities), new publishing business models, and the uses and abuses of the impact factor as a measure of journal quality.

Ron Mobed was appointed Chief Executive Officer, Elsevier in August 2012. Ron previously headed Elsevier’s science and technology businesses. Joining Elsevier in 2011, Ron has had broad range of global experience in electronic information businesses across a number of sectors and regions globally. He was previously President of Cengage Learning’s Academic & Professional Group. Earlier, Ron held a series of leadership positions with information services company IHS, including as Co-President & Co-Chief Operating Officer; and with Schlumberger.

Ron is a Fellow of the Institute of Directors and of the Energy Institute. He holds a bachelor’s degree in engineering from Trinity College, University of Cambridge and a master’s degree in petroleum engineering from Imperial College, University of London.
Team Biographies

Ylann Schemm
Director
Elsevier

As the Director, Ylann drives the Foundation’s focus on advancing diversity in science, building research capacity, global health and embedding technology across the entire portfolio. Prior to joining the Foundation in 2008, Ylann served in diverse role in communications for Swets Information Services and the European Platform for Dutch Education, and publishing for Time Life Books. Ylann holds an MA in Film & Television Studies from the University of Amsterdam and a BA, magna cum laude in English from Amherst College. She currently also serves as Director of External Partnerships within Elsevier’s Global Communications group, developing in depth corporate collaborations focusing on technology and the SDG’s..

Domiziana Francescon
Program Officer
Elsevier

Domiziana Francescon serves as the Elsevier Foundation’s Program Officer and is a strong supporter of the company’s Corporate Responsibility program. Domiziana obtained a master’s degree in Book and Digital Media Studies at Leiden University in the Netherlands, with a specialization in Publishing Studies.

Chris Capot
Nurse Faculty Program
Elsevier

As Director of Corporate Relations, Christopher Capot heads up public relations for Elsevier’s Health Sciences division. He has been a public relations and media relations professional at agencies and corporations for more than 10 years. Prior to that, he was an award-winning newspaper journalist, last working as a business reporter at the New Haven Register in Connecticut. He works in Elsevier’s New York office.
In her role as Elsevier Foundation treasurer, Maria Markova supports the funding of non-profit organizations around the world. Maria is Business Controller of Corporate Function at Elsevier, where she is responsible for financial decision support of six global business units. She previously worked as Senior Associate at Pricewaterhouse Coopers in the UK. Maria acquired her Master of Business Administration (MBA) degree at Oxford University and is a Chartered Management Accountant.

Kenneth R. Thomson II was appointed as RELX Group General Counsel on October 1, 2011. In his role, he has global responsibility for the intellectual property, privacy, governance, compliance and securities law functions for RELX Group. Prior to serving in this capacity, Mr. Thompson served as the Executive Vice President and Global Chief Legal Officer for LexisNexis, an operating division of RELX Group.
Guest teacher Alexander Maas, a thermal engineer, helps students put the finishing touches on their bottle rockets.

Audience at the Gender Summit 10 Asia-Pacific.

Gurpreet Rana (Global Health Coordinator, Taubman Health Sciences Librar) and Emily Ginier (Health Sciences Informationist, Taubman Health Sciences Library ) with librarians at the Paul Nyame Library at Ghana College of Physicians and Surgeons, Accra, Ghana, October 2016.