

30th Anniversary



SOLAR COOKERS  
INTERNATIONAL  
1987 - 2017

This is what empowerment looks like

*Annual Report Fiscal Year 2017*



# Our MISSION

Solar Cookers International's mission is to spread solar thermal cooking technology to benefit people and environments.

We work to solve the problem of inadequate household energy facing nearly 3 billion people on our planet. Since human health, quality of life, and environments are affected by cooking fuel choices, we offer a solution to the difficult choices nearly half of all families make every day: whether to buy fuel, or to buy food and other family needs. The sun's free energy is a viable solution for all who live where the sun shines.

Solar cooker technology is a sustainable and environmentally responsible tool which helps families fight poverty and disease, and changes women's and children's lives for the better.

What distinguishes Solar Cookers International is our combination of projects, partnerships, advocacy and outreach to the global solar cooker community. We engage and energize the Solar Cookers International Network, supporting more than 500 organizations and individuals around the world to share solar thermal cooker knowledge, particularly with those who have the greatest need.

Early in its history, Solar Cookers International identified an urgent need for refugees and villagers in Africa to cook and pasteurize water, and SCI designed a panel solar cooker, the CookIt, to meet this need. Today, we work with partners globally to address health and energy needs in a variety of sensitive populations and environments. Solar Cookers International provides information and connects you to the partnerships you need to bring simple, effective and appropriate solar thermal cooking technology to people who are interested in changing their lives by changing their cooking tools.

# Clean solar cooking propels our future

Thanks to you, Solar Cookers International is **creating a future where people have meals cooked with free power**, no smoke, more trees, and cleaner air. This is possible with your help.

You were constantly in our minds and hearts as we **connected partners from more than 30 countries at the 6th SCI World Conference in Gujarat, India**. This exceptional conference produced immediate, successful results. And with the added training to **create solar cooking businesses**, you helped advance solar cooking to a scale we could only dream of at SCI's last world conference, in 2014.

And you helped elevate the quality of solar cookers. People in the world's poorest regions, and their governments, can adopt solar cooking with confidence as a result of **SCI's new Performance Evaluation Process (PEP) for solar cooking devices**.

We believe in the power of people and the sun to propel change. You are helping to create our better future today with your support for solar cooking.

Julie Greene  
Executive Director



In this highly-connected world, **human connection** matters. Julie Greene, left, appreciates a green gift from faculty and students at a college in India.

*People often address hunger. Yet food must be cooked. **SCI's vision** is to offer the solar clean-cooking solution so that everyone understands and experiences its impact on their family – and on our globe.*

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<http://www.solarcookers.org>

*FRONT COVER: Photo by Verendra Joshi, 2017*

*Photographs in this report courtesy of Charley Cross, 2017, unless otherwise noted*

Special thanks to Amber Giffin and Ascent Environmental, Inc. for design services; and Corey Alling for our anniversary logo.

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*Board members  
Marty Greenia and  
Wyldon Fishman in  
India at the 6<sup>th</sup> SCI  
World Conference.*



**This is what empowerment looks like.** Stakeholders from 30 countries were drawn to the 6<sup>th</sup> SCI World Conference at Muni Seva Ashram in Gujarat, India. You made person-to-person solar cooking connections possible. See videos of the conference at <http://solarcooking.org/6th>

## **250 hours of knowledge and training**

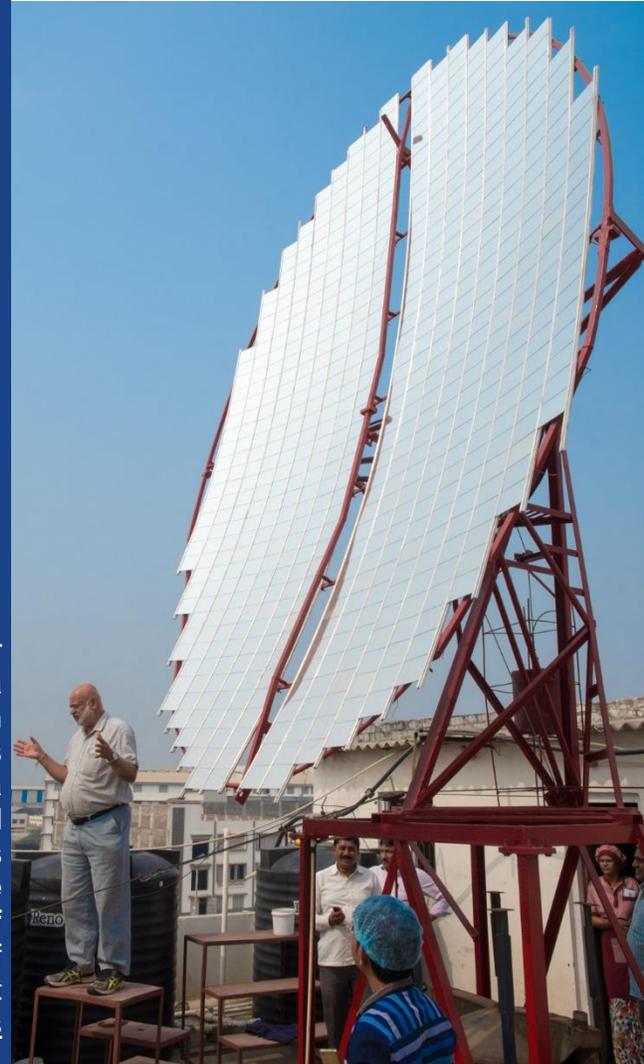
SCI provided training at the 6<sup>th</sup> SCI World Conference to scale up solar cooking businesses.



**SCI Global Advisor** →  
**Deepak Gadhia** explains large solar concentrators to SCI partners from many countries. Solar concentrators like these **cook for tens of thousands of people in India daily.**

*"I recently met with Julie Greene who heads SCI. They are doing excellent work - being decades ahead of us (Bioenergylist.org - Stoves listserv) .... We have a lot to learn from this important group."*  
*Dr. Ronal W. Larson*

← Indian solar box cooker manufacturer, Mahendra Rawat, explains his design to Julie Greene, SCI's executive director, in India for the 6th SCI World Conference. **Solar cooks today can choose from thousands of designs.** See some of your choices at <http://solarcooking.org/des>



# This is what empowerment looks like



Photo: A. Bigelow, PhD, 2017

Edward Sembajjwe [inset] is an SCI travel fund awardee and a solar cooking pioneer. He works with *Disabled Technicians Ltd. Uganda*. Thanks to you and SCI, he and his workers who are disabled make and demonstrate high-quality solar cookers—adding a design (left) that Edward encountered at the 6th SCI World Conference 2017. Edward conducted training where Uganda’s president was the chief guest. **You helped weave this network of ability that spans the globe.** Read more at <http://solarcooking.org/dtul>

*“This is such an easy and ingenious replacement for other more polluting and unhealthy cooking options.”*  
Janet Kolodner, SCI donor

SCI partners encountered a powerful Danish solar cooker design at the conference. The result: Ugandans now build and introduce this design.

# This is what empowerment looks like

**Connections.** At the 6<sup>th</sup> SCI World Conference, Kenyan, American, and Indian partners dreamed of a Solar Cooking Festival for refugees. They shared their knowledge, made a plan, and committed to action. Only months later, 1,000 young people in Kakuma Refugee Camp, Kenya, learned how to make and cook with reflective-panel cookers, with significant support from Haines Solar Cookers.

*You helped make their future more secure.*



*Photos: G. Mawira, 2017*

*“None of this would have happened without the wonderful SCI Conference!”* Roger Haines, solar cooker manufacturer

*“We believe every child deserves a better future. A future that includes hot meals, clean air, trees...and hope.”* Julie Greene

[www.solarcookers.org](http://www.solarcookers.org)



Solar cooks reported their smoke-related health problems fell from 77% to 33% in their first 10 months of solar cooking. Tanzanian solar cooks used the SCI Adoption and Impact Survey. To learn more go to: <http://www.solarcookers.org/Tanzania> You can participate.

Imagine a mature forest as big as South Carolina, US, preserved. That's one way of thinking about the number of trees conserved by 3.1 million solar cookers over their lifespans. SCI and its partners have distributed that many solar cookers already. **Our GOAL: to triple that.**

3.1 million known solar cookers will reduce carbon dioxide emissions by an estimated 25.7 million tons over their lifespan. That's like taking 5 million cars off the road for a year See a map online at: <http://www.solarcookers.org/map>.

A woman who solar cooks in the world's poorest regions saves a large portion of her household budget. This is life-changing when you live on less than US\$1.90 per day.

*"The woman is the first to farm, to harvest, to preserve, to cook. Yet she eats last and eats least." Mary Robinson (First female President of Ireland 1990–1997; UN High Commissioner for Human Rights 1997–2002; UN Special Envoy on El Niño and Climate)*

Solar Cookers International is **independently audited annually** in accordance with standards generally accepted in the United States of America. SCI's fiscal year July 1 – June 30. 2017 was another successful year. With the help of SCI donors and funders, SCI accomplished a broad scope of work with global impact, balanced its budget, and maintained a reserve consistent with SCI bylaws and best business practices.

Please visit <http://www.solarcookers.org/report/> in or after September to review SCI's 2017 annual audit.

# The United Nations is where the world meets



**SCI advises leaders in ways that change government policies.** You helped advocate for clean, sustainable cooking in Haiti. You advised government leaders and provided concrete data on why solar cooking needs to be part of every fuel conversation. The follow-up **report SCI provided has the potential to change the way Haitians cook.**

**See a video by going here:**  
<http://www.solarcookers.org/strongpartners>

**SCI board member Michael Paparian networks with the clean cooking cohort at the annual climate change conference, COP22, in Morocco in November. By reducing CO<sub>2</sub> emissions, solar cooking helps achieve global climate goals that benefit us all.**

# and Solar Cookers International is there

Thanks to SCI donors like you, Sperancea Kakuba Gabone left her native Tanzania for the first time to attend the 6<sup>th</sup> SCI World Conference. She **shared her solar cooking leadership knowledge with a world audience of peers.** Sperancea is now on her way to learn from SCI partners in Uganda who run **successful solar cooking sales teams.** With plans and commitments from SCI's global community, SCI donors create a new vision for women in Sperancea's community.



**This is what empowerment looks like**

# Highlights in 2017

SCI owes a great deal to the donors who provide 80% of our income every year. Just look at some of the impact we've had together:

- 6th SCI World Conference in **India** drew nearly 300 solar cooking leaders.
- Performance Evaluation Process for solar cookers (PEP) launched.
- SCI established its third solar cooker testing center— in **Nepal**.
- Partners were connected across continents (900 teens in **Kenya** Cookoff).
- **Tanzanians** learned from **Uganda's** business model.
- Global Advisory Council member at High Level Political Forum at United Nations.

- Webinars in Spanish linked women across continents.
- COP23 (climate meeting) in **Germany**.
- Seeds planted in **Papua New Guinea** and **Nigeria** for solar cooking.
- SCI led at ASES, Climate Reality and Clean Cooking Forum (New Delhi).
- SCI attained Platinum status with Guidestar—the highest possible rating.
- SCI science director joined the US delegation at ISO/TC 285 Plenary, and
- ASAE S580.1 protocol for Testing and Reporting Solar Cooker Performance listed as a Normative Reference.

# SCI propels global change through solar cooking



Latin American solar cooking women and SCI connected and collaborated at the 6<sup>th</sup> SCI World Conference. With the power of the SCI Association and the world's largest online SCI database of solar cooking information ([www.solarcooking.org](http://www.solarcooking.org)), solar cooking magic happened. A new solar cooking webinar series in Spanish will empower hundreds, if not thousands, more Latin American women with solar cooking knowledge to improve their lives with new cooking practices and ideas for new businesses.

Victoria Aguilera Velazco develops entrepreneurial skills in her native Mexico. She teaches world partners to use their solar cookers to preserve foods and create strong businesses (pictured at the conference in India). **SCI donors create new horizons.**

# Empower with data



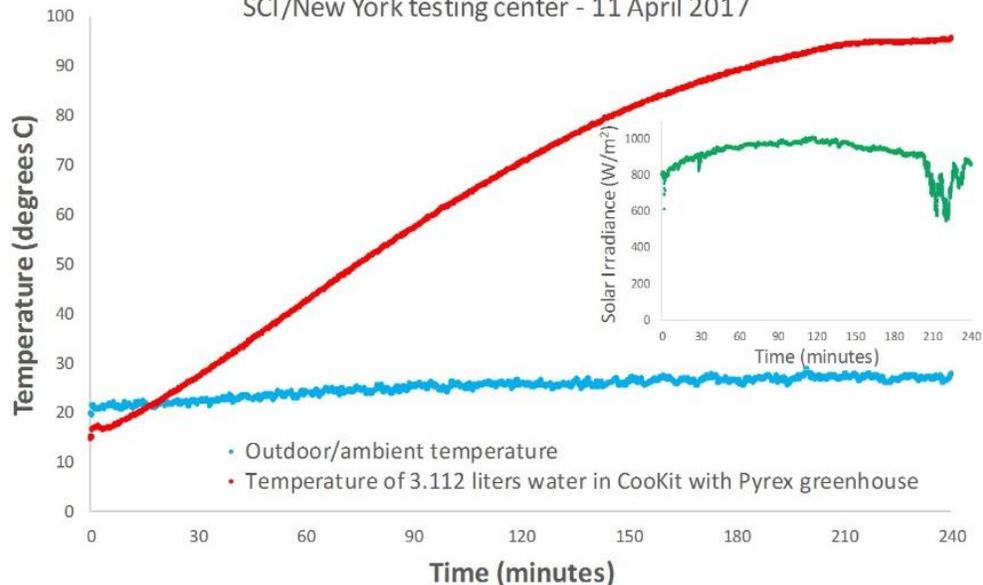
This graph shows Performance Evaluation Process (PEP) data from a *CookKit* reflective-panel solar cooker with two Pyrex bowls as a greenhouse to trap heat. Water temperature, shown in red, remains hot, even when passing clouds reduce solar irradiance (shown in green). These results demonstrate that the power of a *CookKit* with a Pyrex greenhouse exceeds 50 Watts, which is significantly more power than when a plastic-bag greenhouse is used.

Graph: A. Bigelow, PhD, SCI science director, 2017

← SCI demonstrates its newly-developed, low-cost, robotic device and the Performance Evaluation Process (PEP) that **measures the power of a solar cooker**— one key indicator of quality assurance. Read more about the open-source PEP at: <http://www.solarcookers.org/PEP>

## Performance Evaluation Process (PEP) of CookKit

SCI/New York testing center - 11 April 2017



# SCI Financials

## STATEMENT OF ACTIVITIES FOR THE YEAR ENDED JUNE 30, 2017

	<u>Unrestricted</u>	<u>Temporarily Restricted</u>	<u>Permanently Restricted</u>	<u>Total</u>
<b>Support and Revenues</b>				
Contributions	\$ 628,138	\$ 85,750	\$ -	\$ 713,888
Grants and contracts	-	223,700	-	223,700
Sales of cookers & materials	13,130	-	-	13,130
Special events	12,714	-	-	12,714
In-kind contributions (Note 7)	54,150	-	-	54,150
Interest and dividends	10,320	-	-	10,320
Other revenue	4,186	-	-	4,186
	<u>722,638</u>	<u>309,450</u>	<u>-</u>	<u>1,032,088</u>
Total Support and Revenues				
	<u>722,638</u>	<u>309,450</u>	<u>-</u>	<u>1,032,088</u>
<b>Net assets released from restriction</b>	<u>253,051</u>	<u>(253,051)</u>	<u>-</u>	<u>-</u>
<b>Total Revenues</b>	<u>975,689</u>	<u>56,399</u>	<u>-</u>	<u>1,032,088</u>
<b>Expenses</b>				
Program services	651,716	-	-	651,716
Fund development	120,445	-	-	120,445
General and administrative	53,654	-	-	53,654
<b>Total Expenses</b>	<u>825,815</u>	<u>-</u>	<u>-</u>	<u>825,815</u>
<b>Change in Net Assets</b>	149,874	56,399	-	206,273
<b>Net Assets - July 1, 2016</b>	<u>397,011</u>	<u>233,087</u>	<u>50,000</u>	<u>680,098</u>
<b>Net Assets - June 30, 2017</b>	<u>\$ 546,885</u>	<u>\$ 289,486</u>	<u>\$ 50,000</u>	<u>\$ 886,371</u>

# Solar cooking empowers grandparents



As part of the SCI community, you cared for grandparents and orphaned grandchildren in Western Kenya.

**1,000 more elderly people** and their families now have solar cookers. This means:

☀️ **1,076 tons of firewood saved**

☀️ **1,937 tons of CO<sub>2</sub> saved**

☀️ **6,000 changed lives**

Read more at <http://www.solarcookers.org/Kenya>

Photo: D. Chienjo, 2017

# Empowerment in education

Solar cooking is now included in the:

- California Science Framework, educating 6.3 million students in 10,000 schools
- World Health Organization's *Household Energy Use Survey* in all countries. It tracks achievement of the United Nations Sustainable Development Goals



Read more about how solar cooking meets all 17 SDGs at

<http://www.solarcookers.org/SDGs>



**Leaders making leaders.** SCI partners teach others to ensure a strong, resilient future for Nepal. Solar cooking caught on rapidly at Tek Chok Ling Nunnery School, Nepal.

Read more at: <http://solarcooking.org/fost>

Photos courtesy of Sanu Kaji, 2017

# This is what empowerment looks like: a proud solar cook with fewer energy costs

*Pictured: A trainer in India with a parabolic solar cooker. Photo A. Bigelow, PhD, 2017*



## THANK YOU global partners

SCI's partner network expanded significantly this year, including noteworthy additions to the SCI Association (organization level):

**Heliac**  
(Denmark)

**ISES**  
(International Solar Energy Society)

**ASES**  
(American Solar Energy Society)

For a full list, visit <http://www.solarcookers.org/SCIA>

# SCI is proud to engage with a wide range of organizations

Here is a sampling:

- Center for Rural Technology/Nepal
- Combined Federal Campaign
- Dept of Public Information (DPI/NGO)
- EnergyTeachers.org
- Friends of the Old, Kenya
- Foundation for Sustainable Technologies, Nepal
- Global Alliance for Health Promotion
- InterAction
- Macedonia Ministries, Tanzania
- Muni Seva Ashram, India
- Network on Humanitarian Action
- Organizing Committee of the 6<sup>th</sup> SCI World Conference 2017 (Order of Excellence recipients)
- Renewable Energy Policy Network
- Solar Food Processing Network
- Sustainable Development for All
- United Nations Alliance4Health
- United Nations CoNGO
- (The Conference of NGOs)
- United Nations Economic and Social Council
- Uptown Studios
- World Health Organization
- World Renewable Energy Network

To read more, visit <http://www.solarcookers.org/SCIA>

**SCI thanks this year's very generous anonymous donors.  
Thanks, too, to our many supporters, including:**

Aid for Africa ● The Agua Fund, Inc. ● Global Alliance for Clean Cookstoves  
The Morris and Alma Schapiro Fund ● American Leadership Foundation

AND

More than 35 active volunteers who work with extraordinary commitment to strengthen the solar cooking movement. Read more about the mission they support at <http://www.solarcookers.org/mission>

## HOW YOU CAN HELP

***Make a donation today at***  
<http://www.solarcookers.org>

**YOU empower global change**

# YOU empower their future

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