



Global Solutions to  
Global Challenges

# Your Impact With SCI

-Fiscal Year 2020-



# Letter From the Executive Director and Board President



*Photo credit: Sacramento Region  
Community Foundation*

What a year! A global health crisis, inequities abound, and a burning environment. These global challenges require global solutions.

With approximately 3 billion people still cooking over open fires and about 1 million people dying every year from pneumonia from cooking-fire smoke, the time to act is now. Solar cooking reduces risks such as air pollution, deforestation, and respiratory disease. It increases energy independence, food stability, health, and safety.

**Our mission is to improve human and environmental health by supporting the expansion of effective carbon-free solar cooking in world regions of greatest need.**

This is especially important during times of crisis and to reduce future health and environmental risks. With your support, solar cooking eliminates indoor pollution, reducing overall outdoor pollution. This improves the air that we all breathe and for this, we truly thank our supporters.

Best,

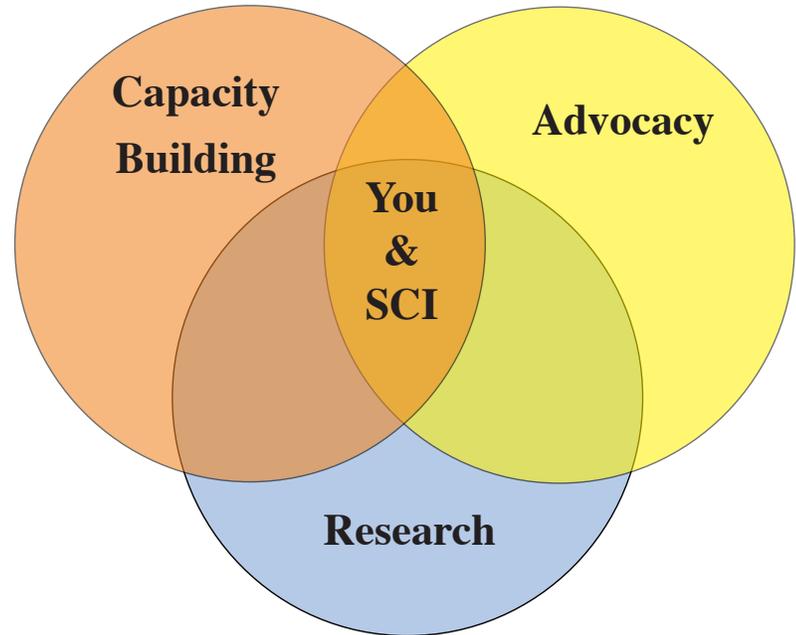
Caitlyn Hughes, Executive Director

Dr. Shishpal Rawat, Board President

# How It Works

A solar cooker is a thermal cooking device that collects and absorbs direct sunlight and retains heat to cook food and pasteurize water. Hundreds of designs (or models) exist, from reflective-panel cookers to institutional rooftop steam systems that can cook for thousands of people at a time.

SCI leads the solar cooking sector through advocacy, research, and capacity building, for instance, by connecting our hundreds of collaborators in over 135 countries.



# Your Impact With SCI: Advocacy

Global challenges require everyone working together, especially those who influence policies and resources. That's why you and SCI are informing tens of thousands of top government and civil society leaders about solar cooking at international events such as the United Nations (UN) Climate Conference (COP) and the High-Level Political Forum (HLPF). Leaders are looking for solutions; you and SCI are making sure they know about solar cooking.

*"I have a lot of faith in the UN and the UNFCCC (United Nations Framework Convention on Climate Change) when it comes to addressing climate change and I am extremely proud of the representation SCI has taken at the COP meetings and other important international opportunities to show the world the tremendous potential of solar and integrated cooking."*

-SCI Global Advisor  
Jack Anderson



SCI holds a press conference at COP25 with speakers (left to right) Pranav Mehta of the Global Solar Council, SCI Science Director Alan Bigelow, Ph.D., SCI Board Treasurer Mike Papanian, SCI Executive Director Caitlyn Hughes, and Golo Pilz of Brahma Kumaris. *Photo credit: Rob Tyrrell*

# Your Impact With SCI: Advocacy

Thanks to you, SCI shared the solution of solar cooking on a global scale by amplifying your voice through the press. SCI informed millions of people about solar cooking with features in *The New Yorker*, the *Washington Post*, *Physics World*, *Business Insider*, *Voices of Leaders*, Spanish news, Taiwanese news, two French magazines, and more.



SCI Executive Director Caitlyn Hughes (left) and SCI Science Director Alan Bigelow, Ph.D. (right) broadcasting solar cooking information worldwide from the United Nations Climate Conference (COP25). *Photo credit: Rob Tyrrell*

# Your Impact With SCI: Advocacy



SCI Executive Director Caitlyn Hughes (left) meeting with Sustainable Energy for All CEO Damilola Ogunbiyi (right) at the United Nations Climate Conference (COP25).

SCI makes sure your voice about solar cooking global solutions goes further by collaborating with impactful organizations, to make sure they know about solar cooking and include it in their work to help further the global solar cooking movement.

These organizations include: the World Food Program, Climate Technology Centre and Network, Sustainable Energy for All, the Global Solar Council, Renewable Energy Policy Network for the 21<sup>st</sup> Century, the International Solar Energy Society, and the American Solar Energy Society. For example, now solar cooking is included in World Health Organization training manuals and the United Nations Global Marketplace (UNGM).



SCI and World Food Program representatives meet at the United Nations Climate Conference (COP25) to discuss including solar cooking in school lunch programs. *Photo credit: Rob Tyrrell*

# Your Impact With SCI: Advocacy

SCI amplified your voice by educating the public at community outreach presentations at libraries, cultural festivals, science fairs, vocational training centers, service clubs, community events, conferences (virtual and in-person), and schools, such as this guest lecture at the University of Madrid in December 2019. Together, we are inspiring the next generation.



Professor Antonio Lecuona-Neumann, SCI Associate, hosts a guest lecture for his students from SCI Executive Director Caitlyn Hughes, SCI Science Director Alan Bigelow, Ph.D., and SCI Representative to the United Nations Rob Tyrrell. *Photo credit: Alan Bigelow, Ph.D.*

# Your Impact With SCI: Capacity Building

Thanks to your support, we have empowered approximately 700 mothers, children, and fathers in Kakuma Refugee Camp, Kenya with access to the cleanest cooking technologies and training since 2018. The camp is not able to supply enough fuel to meet each family's cooking needs, so solutions like solar cookers are critical to keeping families healthy and fed.



Solar cooking training (left) and a newly empowered solar cook (right) at Kakuma Refugee Camp, thanks to you. *Photo credit: Alan Bigelow, Ph.D. (left) and Ecomandate (right)*

# Your Impact With SCI: Capacity Building

Thanks to your support, SCI manages the Solar Cooking Wiki, the world's largest solar cooking database, easily accessible in 40+ languages, at [solarcooking.org](http://solarcooking.org).

The screenshot shows the homepage of the Solar Cooking Wiki. At the top, the URL [www.solarcooking.org](http://www.solarcooking.org) is displayed. Below it is the SCI logo (Solar Cookers International) and the title "Solar Cooking Wiki". The page count is shown as "1,778 PAGES" with an "ADD NEW PAGE" button. Navigation links include "LEARN", "TEACH", "SEE ALL...", "ABOUT", and "EXPLORE". A "Home" section is prominent, with a "VIEW SOURCE" button and a "SHARE" button. A green banner provides statistics: "142 Countries · 345 NGOs · 259 Individuals" and "164 Manufacturers · 425 Designs · 113 Plans", along with social media icons for Facebook and Twitter. Below this are three orange buttons: "Find your country" (with a globe icon), "Build a cooker" (with a wrench and screwdriver icon), and "Buy a cooker" (with a shopping cart icon). A list of languages is provided, including Spanish, Greek, French, German, Hausa, Hebrew, Igbo, Indonesian, Italian, Kiswahili, Kreyòl, Kurdish, Malay, Malayalam, Portuguese, Russian, Romanian, Somali, Tagalog, Turkish, Vietnamese, Yoruba, and many others. A "Solar cooking around the world" section has tabs for "News", "Events", and "New Content". On the right, a sidebar titled "The Solar Cooking Wiki" lists links like "About this wiki", "About Solar Cookers International (SCI)", "About the SCI Association", "Become an SCI Associate", "Sign up for email news updates", and "Add or edit an article". Below that, "Solar cooking basics" includes a link to "Introduction to solar cooking".

*“The SCI Wiki has all the information we needed to prepare the curriculum for the course, Sustainable Development: Solar Cooking at the Universite Notre Dame d’Haiti (UNDH). I am a better solar cook today because of the Wiki.” -SCI Global Advisor Rose Bazile*

# Your Impact With SCI: Capacity Building

The John Collentine Solar Cooking Toolkit is an online collection of materials helping multiple audiences and serving multiple purposes, from the novice solar cook learning to solar cook to energy ministers promoting large-scale adoption of solar cookers. It provides a wealth of information in modules, making it a user-friendly tool for all. [www.solarcookers.org/sci-toolkit](http://www.solarcookers.org/sci-toolkit)

 <p>INTRODUCTORY TOOLS</p> <p>Learn about the benefits of solar cookers, how they work, and how to obtain a cooker.</p>	 <p>TECHNICAL TOOLS</p> <p>Learn about solar cooker designs, materials, solar tracking, and solar radiation.</p>	 <p>NETWORKING TOOLS</p> <p>Learn about the Solar Cooking Wiki, consulting SCI, Global Advisors, and more.</p>	 <p>PROJECT TOOLS</p> <p>Learn about data, impacts, and significant projects; add your data to the global map.</p>
 <p>TESTING TOOLS</p> <p>Learn about SCI's Performance Evaluation Process - why, how, what, and where.</p>	 <p>ADVOCACY TOOLS</p> <p>Learn about the United Nations work, other clean cooking advocacy groups, and promoting solar cooking.</p>	 <p>BUSINESS TOOLS</p> <p>Learn about financing projects and carbon credits.</p>	 <p>TEACHING TOOLS</p> <p>Learn about classroom resources and building solar cookers.</p>

# Your Impact With SCI: Capacity Building

Cooking with solid fuels comes with a high price tag. SCI's Solar Cooking Impact Summaries (an example shown right) depict the savings made possible by solar cooking. Many environmental and health costs associated with cooking with solid fuels are avoided by switching to solar cooking.

The estimated savings for each country are dramatic; some countries could save billions of dollars annually. SCI created these to encourage countries to invest more in solar cooking as a solution. See more at [www.solarcookers.org/resources/download](http://www.solarcookers.org/resources/download).



*Photo credits (left to right, top to bottom): Macedonia Ministry, Julie Greene, FoST, Macedonia Ministry, and Charley Cross*

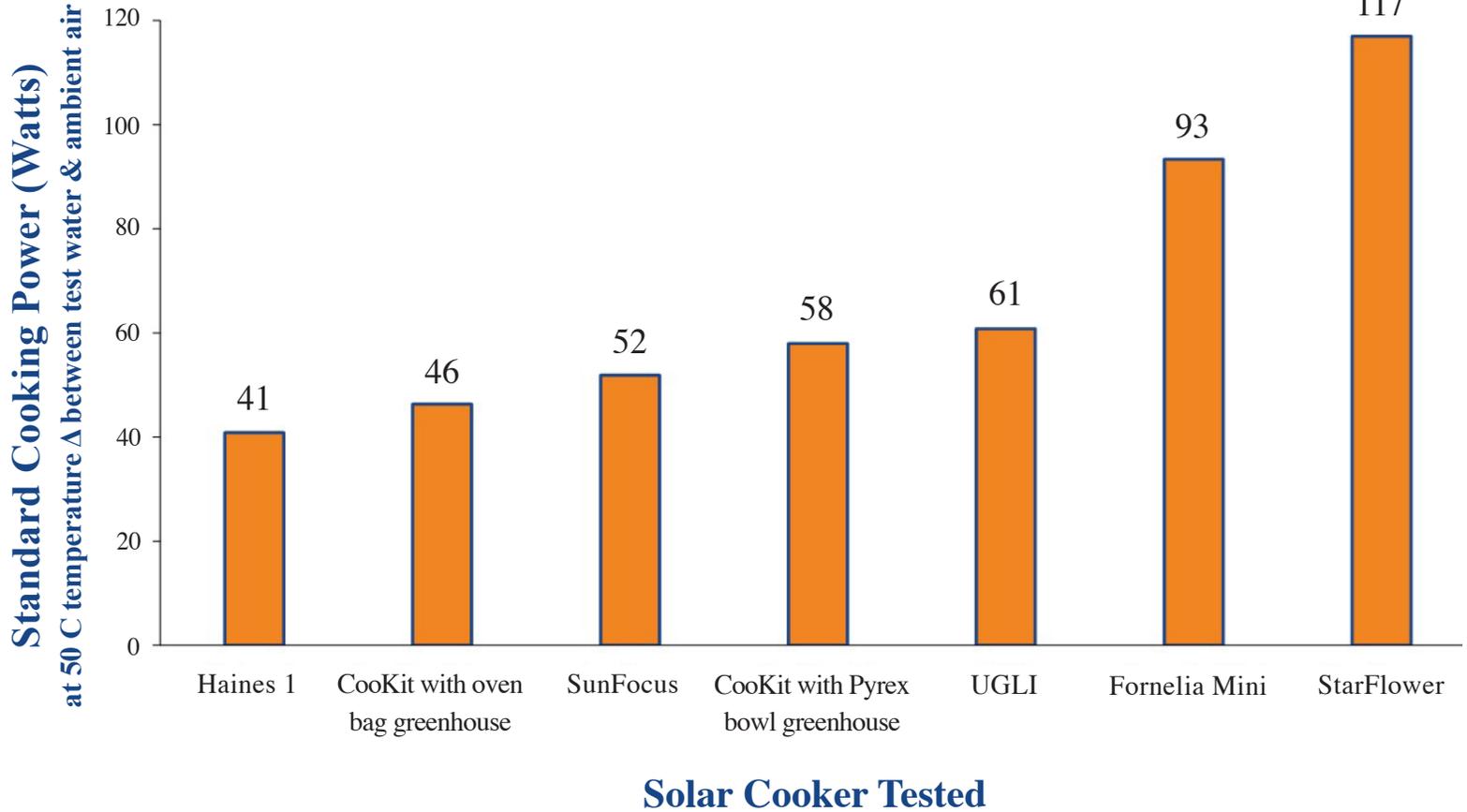
# Your Impact With SCI: Research

Solar Cookers International developed the Performance Evaluation Process (PEP) to measure the standard cooking power of various types of solar cookers. It empowers consumers, investors, and end-users like you and women in Kakuma Refugee Camp (see pg. 8) with accurate, unbiased, scientific information. It increases credibility and standardization of the solar cooking sector. Learn more about the cookers whose PEP results are shown on the following page, and see more results expected soon (such as from the Fornelia Mini, Haines 2, and ULOG) at [www.solarcookers.org/work/research](http://www.solarcookers.org/work/research).



Performance Evaluation Process (PEP) testing of the CooKit at the University of Nairobi, one of four global solar cooking PEP test centers, thanks to you. *Photo credit: Alan Bigelow, Ph.D.*

# Your Impact With SCI: Research



# Your Impact With SCI

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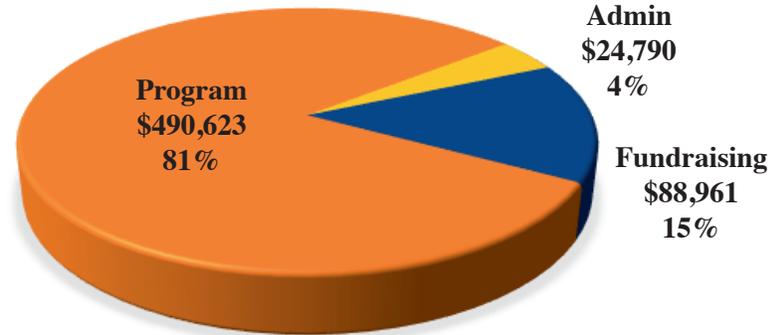
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### Highest Rating 4 Years in a Row

Solar Cookers International consistently receives the highest rating from charity rating organizations including Charity Navigator, GuideStar, and the Better Business Bureau.

*“This exceptional designation from Charity Navigator sets Solar Cookers International apart from its peers and demonstrates to the public its trustworthiness.”*

– Michael Thatcher President and  
CEO of Charity Navigator



Total income for FY 19/20: \$683,824  
Fiscal Year (FY) 19/20 = July 1, 2019 - June 30, 2020  
Ending net assets: \$1,095,075



# Thank You to Our Supporters

The work at SCI is not possible without supporters like **YOU**. Together, we are making a difference in the lives of millions of people around the world. Thank you.

## **A special thanks to our generous funders:**

- Agua Fund, Inc.
- The Morris and Alma Schapiro Fund
- Community Foundation of Greater Memphis
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- Unitarian Universalist Church
- AG Foundation
- Sacramento Region Community Foundation

## And

- SCI Associates
- SCI Global Advisors
- SCI Legacy Circle Members
- SCI President's Circle Members
- SCI volunteers
- SCI collaborators
- All of SCI's supporters including **YOU!**



*“Solar cooking is a way to change myself and a way to change the world. I just love solar cooking because it makes me feel more connected with Mother earth. I really think it is important for everybody to take small steps ourselves to take care of her. This will be the best gift we can leave for future generations. Also, I love solar cooking because I want my daughter to learn about it and to feel the power of the sun.”*

**-SCI Global Advisor Rocio Maldonado**

*Photo credit: Raúl Pérez Albrecht*



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

**Thank you!**



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Alan Bigelow, Ph.D. (left)  
and Shannon Watkins (top)