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RI Water, Health, Hunger & Solar Resource Group

RI President K.R. Ravindran chose *"Be a Gift to the World"* as his theme for 2015-16. Ravindran urges Rotary members to give the gifts of time, talent, and knowledge to improve lives in communities across the globe. "Through Rotary, we can take these gifts and make a genuine difference in the lives of others and in our world."

With our D5170 Clubs' projects in the areas of Water, Health, Hunger and Solar (WHH&S) in the world, we will implement President Ravindran's theme and together strive to make the world a better place.

Our Mission: Be a resource, and provide motivation, knowledge and support for District 5170 clubs to become very active, internationally and locally, in pursuing innovative water, sanitation, health, hunger and solar projects/solutions - as shown in the WHH&S Solutions Matrix at end of this page.

District Goals and Action plan for this year include:

- To have every Rotary Club involved in Water, Health, Hunger and Solar project(s) - for international and/or local project(s). Look for opportunities to drastically empower women and reduce child mortality.
- Provide club presentations, programs or training opportunities to help educate Rotarians about global and local issues relating to Water, Health and Hunger, and potential solutions including solar technologies
- Participate in Area WCS meetings for information sharing.
- Facilitate clubs working together, to accomplish joint Water, Health, Hunger & Solar projects - Global Grants, Matching Grants, District Grants.
- Conduct surveys of existing and planned club projects involving Water, Health, Hunger and Solar.

Encourage clubs to have at least one club member in the

Water, Health, Hunger...

Related Pages

[Health & Hunger Awards \(no file\)](#)

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The Challenge

About 97 percent of the world's water are oceans -- and saline. More than 2 percent of the rest of the water is frozen in icebergs and glaciers, leaving less than 1 percent of all water available for human use. If it were possible to fit all the water on Earth into a gallon (4 liter) jug, the relative quantity of water available would be about one tablespoon (4 fluid drams).

Fresh drinking water and water for food production and waste disposal are essential and increasingly threatened. Population growth and mega cities have increased demand six times since the beginning of the 1900's. Pollution contaminates available supplies. Today, almost half of the world's countries have severe water problems.

Rotary Solutions

Recognizing the vital importance of safe water, Rotary International policy encourages all Rotary districts and clubs to support efforts that help people to provide themselves with safe water. The safe water projects are to be reasonably close to homes using simple sustainable technology. This policy is reflected in projects of all sizes in all parts of the world.

Indicative of Rotary activity are the number of Matching Grants awarded by The Rotary Foundation for water-related projects. The trustees of The Rotary Foundation have made clean water as one of three priorities for major Health, Hunger and Humanity (3-H) Grants.

In recognition of Rotary's work to provide safe water in communities around the world, the International Water Resources Association presented the 1997 Crystal Drop Award to Rotary International. Rotary was cited for its projects in Senegal, Haiti and Thailand. The Rotary Foundation awards Matching Grants to projects coordinated by Rotary clubs throughout the world for wells, water tanks, school

or hospital water systems, and lavatories.

Multi-Continental Efforts

The Rotary Safe Water Project has resulted in the construction of 710 wells --565 in India and 145 in Guatemala. The project was initiated by three Rotary International Directors from India, Guatemala, and the United States, to increase Rotary awareness and support for providing safe water to communities in developing nations.

African Solutions

Supported by a \$300,000 Rotary Foundation grant, The Rotary clubs of Massachusetts, USA, and Kisumu, Kenya, sponsored a project to develop a supply of clean drinking water for some 500 families in Kenya. The project is designed to create a system of village level water management cooperatives, with trained participants including school and church leaders.

A Senegalese Rotary member created a device which forces tree roots to tap water well below the saline surface of the Sahel. Supported by French Rotary clubs, the device is being used to fight desertification throughout Senegal.

Water Technology

Aquabox www.aquabox.org

AQUABOX is an official project of Rotary International in Great Britain and Ireland and Rotary International District 1220, managed by its initiators, the Rotary Club of Wirksworth in Derbyshire. The project goal is to provide in the wake of both man-made and natural disasters a rapid response provision of safe drinking water and welfare aid items.

Center for Affordable Water and Sanitation Technology (CAWST) www.cawst.org
CAWST is a Canadian non-profit organization whose purpose is to provide technical training and support in water and sanitation services for those who serve the poor in developing countries. In particular, CAWST is the centre of expertise and distribution for the Biosand concrete water filtration technology, a low-cost water treatment technology specially designed for use by the poor in developing countries. The Biosand concrete filters are household filters made by local people, using materials commonly found in most parts of the world.

Practica Foundation www.practicafoundation.nl

The Practica Foundation aims to facilitate research, development and commercial application of technology in the field of water and energy in developing countries.

**Susan Murcott, Lecturer *Department of Civil and Environmental Engineering*
*Massachusetts Institute of Technology***

<http://news.mit.edu/2013/long-haul-to-bring-clean-water-to-developing-nations-1210>

<http://news.mit.edu/topic/water>

<http://cite.mit.edu/tags/water-filter-evaluation>

Susan specializes in drinking water quality and treatment in developing countries and innovative wastewater treatment technology.

SODIS (Solar Water Disinfection) www.sodis.ch

SODIS, Solar Water Disinfection, improves the microbiological quality of drinking water: it is a simple water treatment method using solar UV-A radiation and temperature to inactivate pathogens causing diarrhea.

Solar Water Purifier www.solarwaterpurifier.com

Australian Rotary clubs and districts to purify polluted water in the developing world use the Solar Water Purifier. It could well be a great solution for providing clean water from local polluted sources. It is inexpensive and calls for little or no technological capability.

US AID www.usaid.gov

Provides economic and humanitarian assistance in more than 100 countries to provide a better future for all. US AID works in close partnership with private voluntary organizations, indigenous organizations, universities, American businesses, international agencies, other governments, and other U.S. government agencies. USAID has working relationships with more than 3,500 American companies and over 300 U.S.-based private voluntary organizations.

Water Environment Federation www.wef.org

Founded in 1928, WEF is a not-for-profit technical and educational organization. Members are from varied disciplines and they collaborate with staff to realize the WEF vision of preservation and enhancement of the global water environment. The WEF network includes water quality professionals from 79 Member Associations in over 30 countries.

Water Environment Research Foundation www.werf.org

WERF helps its subscribers improve the water environment and protect human health by providing sound, reliable science and innovative, effective, cost-saving technologies for improved management of our water resources. With the support of its subscribers and funding from the federal government, WERF is able to lead the way in conducting timely, relevant research at a fraction of what it would cost each of its subscribers to conduct the same research independently.

Water Organizations

The African Water Issues Research Unit (AWIRU)

www.up.ac.za/academic/libarts/polsci/awiru

The African Water Issues Research Unit (AWIRU) is a not-for-profit applied research organization based at the University of Pretoria, established to develop an African capacity to understand the complexity of African water management and development issues. Cooperation over water resources shared between states, regions and economic sectors can spill over into enhanced regional integration.

American Fisheries Society www.fisheries.org/html

The mission of the American Fisheries Society is to improve the conservation and sustainability of fishery resources and aquatic ecosystems by advancing fisheries and aquatic science and promoting the development of fisheries professionally.

American Water Resources Association www.awra.org

The American Water Resources Association aims to advance multidisciplinary water resources education, management and research and the advancement of water resources research, planning, development, management and education.

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Canadian Physicians for Aid and Relief (CPAR) www.cpar.ca

CPAR is a non-profit, non-sectarian organization that is inspired by the vision of a healthy planet, where health is broadly defined to include human well-being, environmental integrity, and social justice. CPAR is dedicated to supporting vulnerable, low-income people in the developing world in their efforts to achieve good health. CPAR works toward this end by helping individuals, communities and grassroots organizations to become increasingly self-reliant. CPAR is also committed to informing Canadians about, and engaging them in, the global effort for health and development.

CARE: Cooperative for Assistance and Relief Everywhere www.care.org

In more than 60 countries around the world, CARE is working with poor communities to find lasting solutions to poverty. CARE looks at the big picture of poverty and goes beyond the symptoms to confront the underlying causes. With a broad range of programs based in empowerment, equity and sustainability, CARE seeks to tap human potential, to leverage the power of people and, in doing so, to unleash a vast force for progress.

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Center for Disease Control (CDC)& CDC Safe Water System www.cdc.gov & www.cdc.gov/safewater & the PDF manual at www.cdc.gov/safewater/manual/sws_manual.pdf

The Centers for Disease Control and Prevention (CDC) is recognized as the lead federal agency for protecting the health and safety of people - at home and abroad, providing credible information to enhance health decisions, and promoting health through strong partnerships. CDC serves as the national focus for developing and applying disease prevention and control, environmental health, and health promotion and education activities designed to improve the health of the people of the United States.

Center for Global Safe Water (CGSW) www.sph.emory.edu/CGSW

The Center for Global Safe Water (CGSW) is a partnership among Emory University, CARE USA, the Centers for Disease Control and Prevention (CDC), and Population Services International (PSI). Its mission is to improve access to safe drinking water globally, with special emphasis on vulnerable populations in developing countries. The CGSW seeks to achieve its mission by engaging in applied research, evaluation, and training activities with local, in-country partners working on specific water and sanitation problems and solutions.

Rotary Fellowships (no file)

[Links](#)

15-16 RI Pres WHH&S; works (wrong link?)

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- Conduct surveys of existing and planned club projects involving Water, Health, Hunger and Solar.
- Encourage clubs to have at least one club member join the Water and Sanitation Rotary Action Group (WASRAG: www.wasrag.org, a very informative site with opportunities to add your project for potential partner clubs).
- Develop a Database of knowledgeable Rotary and non-Rotary experts in the many aspects of Water, Health, Hunger & Solar - resulting in leveraging our knowledge base and leading into "Best Practices".
- Attract motivated Rotarians to join the Water, Health, Hunger & Solar Taskforce to form a long-term resource group that lasts many years.
- Work with Interact and Rotaract clubs to encourage international/local projects in Water, Health, Hunger & Solar.
- Continue workshops with Youth service groups and elementary & high school students on making and using solar cookers.

- Brainstorm ideas to "make a greater difference" - for those who's survival is often threatened by poverty and lack of resources (safe drinking water, sanitation, medical care, food, energy, etc.)

Please contact me regarding your club projects, ideas, issues or needs related to Water, Health, Hunger and Solar programs -- Or volunteer to join the taskforce or serve as an expert. Looking forward to support you and work with you all.

Allart Ligtenberg, Chair
Water, Health, Hunger & Solar Taskforce
Email: aligtenber@aol.com

Web Page:

http://solarcooking.wikia.com/wiki/Allart_Ligtenberg

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PROBLEMS-SOLUTIONS MATRIX

SOLVE PROBLEMS with D-5170 ROTARY SOLUTIONS

PROBLEMS IN WATER, HEALTH, HUNGER, & SOLAR SOLUTIONS:

WATER:

- **Unsafe water** - Solar water pasteurization, Solar Cookers, WAPI's (Water Pasteurization Indicators), SODIS (Solar Disinfection), Filters (bio-sand, UV, arsenic removal, chlorine, etc), Water Testing.
- **Water shortage** - Wells, Pumps, Pipelines, Conservation, Rainwater Harvesting (roofs, dams creating lakes), Fog/Dew collection (even in deserts), Desalination.
- **Farming water** - Irrigation, Drip systems, Pumps (treadle, rope, solar, etc).

HEALTH:

- **Water related** - Safe Drinking Water solutions (see Unsafe water above), Sanitation, Hygiene, ECO toilets, Public toilets, Education, Community building, Women empowerment.
- **Environment** - Smoke-free/no-open fire Cooking: Solar Cookers & Rocket Stoves.
Burn Centers (Coaniquem).
- **Pandemics** - HIV/AIDS Prevention/education/counseling programs, PMTCT (nevirapine),
Prevent Polio, Malaria, Cholera, Worms, Diabetes, TB, Cancer, etc.
Prevent Drug abuse, STD's.
- **Medical** - Basic care, Pre/Postnatal care, Telemedicine (through internet),
Artificial limbs, Cleft lip & palate surgery (Rotaplast, Faces of Hope)
Wheelchairs (www.freewheelchairmission.org and Rotary Wheelchair Foundation), Hand-driven tricycles.
Dental, Eye care, Cataract surgery, Heart etc surgery, Mobile Clinic, Ambulance, Hospital supplies/equipment, RotaCare.
- **Mental Health** - Treat Mental Illness, Trauma rehabilitation, Prevent Drug abuse.
- **Miscellaneous** - Bone marrow registry.

HUNGER:

- **Starvation** - Emergency Response/Relief, Distribute food/vitamins/medicine, Save lives, Prevent Brain damage (longtime starvation/malnutrition)
- **Malnutrition** - Sustainable agriculture, Irrigation, Composting, Vegetables, Seeds, Fruit trees,
Solar drying (fruits/vegetables/meat), Greenhouse, Income generation,
Empowering women, Livestock breeding, Fishing gear, Micro-credit,
Teach proper diet, Soup kitchens, Surplus Food distribution.

ENERGY:

SOLAR:

- Photo-Voltaic (PV) Solar technologies: solar lighting, WLED lights, pumping, refrigeration.
- Thermal (passive) Solar technologies: Solar Cooking, Water Purification/Heating, Drying, Space-heating, Greenhouses.

