

*Sharing resources and knowledge
to fight hunger and poverty*



Annual Report 2002

Our Vision

To make a difference in the economic and nutritional well-being of individuals in developing countries through the development and application of food, water, and related technologies

Our Mission

To make a measurable difference in alleviating hunger and poverty among poor people in developing countries.

Our Work

CTI designs and adapts simple, efficient and inexpensive technologies in response to small-scale food processing and related needs in rural areas of developing countries. We work as technical consultants to and as project partners with local agencies who integrate our technologies into the processing systems currently used in households and by local entrepreneurs. Our experts train in the manufacture, use and maintenance of our devices. CTI technologies are available for purchase.



President's Message

What a Whirlwind Year! Our twenty-first year has proved to be one of change, growth, innovation, great service, and dedication. We would like to mention just some of the highlights of this past year.

To improve our program planning and budgeting processes, we changed our fiscal year end from December to June. CTI's 2002 "year" actually extended 18 months, to June 30, 2003. This also aligns us with the fiscal reporting of some of our donors and partners.

Our growth over this period was a result of collaboration with partners, innovation in technology development, aggressive project management, and careful stewardship of our resources. As a result, we saw advances in our service, especially in Guatemala where our corn processing and storage work has met its goal of 200 storage silos, benefiting over 1200 people; in Nicaragua where our water chlorinator has been installed in 15 villages providing healthy water to thousands of villagers; in India where our potato processing dissemination project started towards its goal of 50 new processing systems in operation in northern India; in Haiti where the peanut butter processing and breadfruit processing micro-enterprises have flourished; in Uganda where we have helped establish a high quality manufacturing shop of Ewing III grinders; in Senegal where a Peace Corps volunteer trained a village in using our grinder. Behind each of these statistics are human beings, families and villages that have seen their lives improved through CTI's services.

At the very center of our service is our distinguished corps of volunteers. Engineers, teachers, professionals, attorneys, food scientists, executives, Peace Corps returnees -- all play a pivotal role in our success. This edition of our Annual Report is dedicated to the tireless dedication of all of our volunteers.

We look with confidence towards an expanding role in alleviating hunger and poverty in developing nations thanks to these volunteers and your support. Thank you!

Kathleen Graham
President

Bruce L. Humphrys
Executive Director

Zimbabwe

Since 1995, over 800 of CTI's Omega grinders have been put to use in rural households, women's groups and small urban firms. Where power is available, the grinders have been electrified, reducing labor and increasing output. Peanut butter consumption is increasing substantially. Peanut butter, already a staple in the local diets, adds much needed protein, and growing peanuts replenishes nitrogen in their soil.

In 2002, CTI began a partnership with Africa University in Mutare in central Zimbabwe and has established three goals: to strengthen the university's outreach by distributing grinders beyond the reach of the Development Technology Center, to determine the needs of fruit and vegetable producers and to improve solar drying and roasting technologies.



Uganda

CTI and a Ugandan non-profit, Appropriate Technology Uganda (ATU), have been working together to provide a simple, low-cost grinder for use in rural Uganda to produce peanut butter and sim sim, a sesame sauce, both of which are currently prepared by hand-pounding. CTI volunteer Mark Kooiker, a mechanical engineer, is training machine shop workers in Kampala to fabricate Ewing II grinders, and ATU has formed a network in north and east Uganda of stockists (small agricultural input shops) where the device will be sold. CTI is also providing a user-friendly manual for rural Ugandans and is exploring manufacture of the grinder burrs in South Africa. This three-year project is funded by the McKnight Foundation.

In 2002, CTI volunteers began exploring the development of technology use in Senegal and Tanzania.

Contributors

Lead Gifts (\$5000 and over)

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General Mills Foundation
James & Lois Hanko
The House of Hope
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Harvestors continued...

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Joanne & Philip Von Blon
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Waterbury
Wayzata Community Church
Mrs. Jean West
Westminster Presbyterian
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Sowers (\$100-499)

Advance Memorial UMC
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Irene Anderson
Asbury UMC
John & E. W. Baker
Duane & Mary Bay
Ken & Catherine Beck
Peter Beck
Charles Benjamin

Guatemala

Three simple devices - a corncrib, a sheller and an in-home silo - have been designed to improve three procedures: drying, shelling and storing. The corncrib gets the corn off the ground, slats allow for air drying and guards protect against rodent infestation. An inexpensive wood sheller, devised by retired science teacher David Elton, easily detaches the dried kernels from the cob without bruising the corn. The silo keeps the kernels safe and readily available for use. These devices have reduced post-harvest corn loss in Guatemala from close to 50 percent of the harvest to almost nothing. This means dramatic increases in nutrition for families as well as an improved economy.

This year, CTI set out to install 320 new silos, typically costing \$50 each. This goal was crushed as the Ministry of Agriculture provided enough metal laminate for 732 silos, assisting 4,300 people in the communities of San Pedro Pinula, San Luis Jilotepeque and San Carlos Alzatate. This project is supported, in part, by the Weyerhaeuser Family Foundation.

Nicaragua

Infant mortality and morbidity statistics for Central America and other less developed areas worldwide consistently indicate that diarrhea due to contaminated water is a primary cause of illness and death in children under five. CTI volunteers have created a simple, nearly maintenance-free device capable of disinfecting water with chlorine tablets in gravity-fed rural water systems.

Water engineer Charlie Taflin tested eight successive models of the chlorinator in the St. Paul Municipal Water Plant before taking it to Nicaragua last fall. Taflin and Project Manager Fred Jacob collaborated with the Nicaraguan Water Ministry in the Department of Matagalpa to construct and install the \$45 PVC device for field testing. In this first test, the device performed admirably; the level of chlorine in the system has remained at an acceptable level for the duration of the test. Next steps include 10 more installations in Nicaragua and possible expansion for additional testing in Guatemala with Fundacion CRYSQL and the Dominican Republic. This project is funded by the R.C. Lilly Foundation.

Haiti

Breadfruit is an abundant, inexpensive and under-utilized fruit that grows wild in Haiti. Six enterprises to process breadfruit flour currently exist and the Committee on Development (COD) of the Methodist Church of Haiti plans to have 30 operating in the next few years.

The COD and CTI founder George Ewing are working together to increase breadfruit flour production and to establish small breadfruit processing enterprises. The COD has requested technical assistance from CTI to develop more efficient, healthful ways to process breadfruit so greater quantities can be made into flour and then sold. CTI is focusing on upgrading the entire process of flour making with emphasis on storage, peeling and slicing.

Hennepin Avenue United Methodist Church and the COD provide over 70 percent of the funding for this project. Ewing and several volunteers from General Mills are also developing a nutritious snack, made from breadfruit and other local ingredients, to be used in school lunch programs.



St. Lucia

With the loss of favorable banana exporting trade provisions, many St. Lucian farmers are now growing traditional crops, especially cassava. The farmers in the Vigier cooperative have been working on renovating the physical structure for the plant and establishing working teams, while CTI has facilitated the purchase of equipment and provided technical expertise for grating, pressing and drying cassava into a farine product.

In October 2002, the Cassava Processing Center began full operations with eight full-time workers and some part-time workers. Former Caribbean Peace Corps Director and CTI volunteer Hank Scheinost report that in 2002 the processing of 29,000 pounds of cassava produced 5,600 pounds of farine, 100 pounds of starch and 2 gallons of casureep. This project was supported by a grant from the Weyerhaeuser Family Foundation.

Sowers continued...

Robert & Betty Benjamin
Neal & Rene Bierbaum
Mary Lou Boice
Helene & Harold Borg
Darrell H. Boyd
William Brandow
Dr. Arnold & Judith Brier
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Carl Kuhmeyer
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Mrs. Mary B. McMillan
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Godan & Savithry
Nambudiripad

*Sowers
continued...*

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Mary S. Yee
Albert & Allegra Zick
Philip & Sue Zietlow
Hans & Jan Zoerb



India - Potato Dissemination Project

Based on studies by SOTEC, a non-governmental organization (NGO) and CTI partner located in Bareilly, India, the process of making dehydrated potato chips is technically and economically viable and ready for large-scale dissemination.

High interest in small-scale food processing in India has prompted lending agencies such as SIDBI (Small Industries Development Bank of India) to provide loans to the village entrepreneurs for the purchase of the potato-processing equipment and raw materials.

India - Oil Extraction Feasibility

CTI has embarked on a potential new partnership with the Society for Education and Economic Development (SEEDS) in Jamshedpur, India. SEEDS works in community development, nutrition and sanitation in over 200 villages surrounding Jamshedpur. Tribal people in many of these communities derive a portion of their income from collecting and selling the seeds and nuts found in the forests surrounding their homes. SEEDS conducted a feasibility study in 2001 to evaluate the availability of seeds and the potential for increased income by processing some of these seeds into oil and shelling others to be sold as valuable nutmeats.

An additional feasibility study regarding oil extraction from MAHUA seeds has been initiated.

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Partnerships

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Committee on Development (United Methodist
Church in Haiti)

Fundacion Crysol/FOTECAP (Guatemala)

General Mills Corporation

Land-O-Lakes Corporation

Peace Corps

St. Cloud State

Society for Development of Appropriate
Technology (India)

Solar Oven Society, St. Pau

United States Agency for International
Development I

University of Minnesota

University of St. Thomas

... and many church missions

Volunteers

Volunteers have contributed over 4,500 hours between January 1, 2002 and June 30, 2003.

Financial Summary

Revenue

Contributions	250,351
Individual	108,370
Religious organizations	58,883
Foundations/Corporations	83,098
In-kind contributions	410,459
Other	
Product Sales	8,893
Investment Income	6,711
Miscellaneous	1,420
Total Revenue	\$677,834

Expense

Program Services	
Africa	22,668
Americas	70,528
India	24,224
Technology	467,090
Water	16,503
Total Program Services	601,013
Support Services	
Administration	84,057
Fund Raising	36,355
Total Support Services	120,412
Total Expense	\$721,425

Change in Net Assets From Operations	(43,591)
Unrealized Loss in beneficial Interest In Assets Held by Presbyterian Church (USA) Foundation	(8,527)
Change in Net Assets	(52,118)

Net Assets beginning of year	
Previously Reported	420,022
Correction of Accounting Errors	(8,987)
As Restated	411,035

Net Assets end of year \$358,917

Fully audited financial statements are available upon request.

Empower persons in need
through the transfer of *knowledge*



Compatible Technology International is a non-partisan, non-profit organization founded in 1981.
CTI has 501(c)3 status and meets Charity Review Council Standards.

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