## Contents

2 Letter from Board Co-Chairs and President  
4 Developing Leaders To Strengthen Economies  
6 Transforming Data into Insight  
8 Supporting Creative and Novel Research: One Partnership at a Time  
10 Harnessing the Human Element  
12 Opening New Doors at CRDF Global  
13 Honoring the Legacy of George Brown  
14 Financial Statement  
16 Executive Staff and Office Locations  
17 Board of Directors  
18 Advisory Council  
19 Funders, Clients, Donors and Sponsors  
20 Individual Donors and Embassy Partners
Dear Friends and Supporters,

Progress has been a fundamental principle of CRDF Global since our founding. We are committed to always moving forward in our mission to build peace and prosperity through international science cooperation.

In these pages, we present stories that demonstrate our understanding of the global issues shaping our work and our delivery of science and technology cooperation in 2012. Progress speaks to CRDF Global’s ability to adapt, learn and evolve within our mission to deliver high-impact programs in an ever-changing world and often in challenging environments.

We believe that international collaboration achieves Progress, not only in terms of scientific discovery but also in cross-cultural understanding and trust. Indeed, we work with more than 40 countries with varying needs and priorities. In February 2012, our programs helped to engage entrepreneurs across the Middle East, and launched a tool to support research and peer review in North Africa. In April, we convened a five-day meeting with the State Academy of Sciences of North Korea, as part of our leadership of the U.S.-DPRK Scientific Engagement Consortium. Our open discussions and exchange of ideas resulted in a joint commitment to implement English language training programs and to develop a virtual science library to serve as a much-needed resource for scientists in the DPRK.

Given the economic challenges in today’s world, CRDF Global has expanded efforts to advance Progress in entrepreneurship and economic development. Through our Technology Entrepreneurship Development Program, CRDF Global launched Commercialization Pathfinder, an initiative that provides online training for indigenous mentors, who in turn lead online trainings for aspiring entrepreneurs in Russia and Ukraine. Likewise, our Global Innovation through Science & Technology (GIST) initiative hosted “Startup Boot Camps” for emerging entrepreneurs in Indonesia, Malaysia, Turkey, Senegal and Algeria.

We also understand that Progress does not always mean launching new efforts. Often, it calls for stepping back when program goals have been achieved. In September, CRDF Global held the final Pan-REC conference under the Basic Research and Higher Education (BRHE) Program. Since BRHE’s launch 14 years ago, CRDF Global and its Russian partners established 20 Research and Education Centers in universities throughout Russia. Today, they serve as models for over 300 similar centers which are driving the development of research universities throughout Russia.

We ended the year by demonstrating our commitment to Progress at home by moving to the first U.S. Green Building Council LEED Platinum building in Arlington, Virginia. The open floor plan encourages collaboration among staff, and our state-of-the-art conference and meeting facilities allow us to continue leading our community to advance international science and technology cooperation.

We thank you for your support as CRDF Global continues to evolve to provide innovative solutions to our world’s most urgent and emerging challenges. We look forward to working with you to achieve Progress in the years to come.

Sincerely,

Ms. Cathleen A. Campbell
President and Chief Executive Officer

Ms. Dona Crawford
Co-Chair, Board of Directors

Dr. William Wulf
Co-Chair, Board of Directors

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President and Chief Executive Officer

“When the winds of change blow, some build walls, others build windmills.”
— Ancient Proverb
CRDF Global works to build opportunities for innovations that affect public health. Tuberculosis, an airborne, infectious disease predominant in Asia and Africa, is a major global health concern. According to the World Health Organization, the disease is responsible for more than one million deaths each year. Under a Science & Technology Entrepreneurship Program (STEP) grant in 2008, a team of scientists led by Dr. Galyna Kutsyna in Ukraine developed Immunooxel, an advance therapy that could shorten treatment for multidrug-resistant tuberculosis to less than four months, making TB drugs 10 times more effective while reducing liver damage caused by chemotherapy. In 2012, the team won another grant in the STEP “From Idea to Market” competition, having reduced treatment time to one month, which allowed them to continue research and commercialization of the new honey lozenge form of Immunooxel. The treatment is particularly relevant for HIV-positive TB patients, for whom treatment options are limited.

Under the Central Asia Science and Technology Entrepreneurship (CATE) program, Kazakhstan grantee Dr. Gulshat Aisheva received the highest ratings from CRDF Global’s panel of experts with her project, “Breeding Sturgeon in a Closed Water Supply,” which attempts to put the region’s economically important caviar industry on a sustainable basis. Since receiving her CRDF Global grant, she has received additional funding for her applied research from the government of Kazakhstan.

In today’s world, technological innovations and entrepreneurship are driving major decisions in education, climate change, public health and diplomacy. In line with CRDF Global’s mission to advance peace and economic growth, our programs focusing on entrepreneurship and innovation have been a means of creating significant global impacts. Since 2009, the Global Innovation through Science and Technology (GIST) initiative has promoted technology commercialization and entrepreneurship in developing and transitional economies. GIST programs have created opportunities for entrepreneurs and small businesses from more than 50 countries to network, build skills and identify mentorship and strategic funding sources.

Addressing barriers to entrepreneurship and business development allows for economic growth at both the individual and national levels. GIST engages one-on-one with entrepreneurs by organizing competitions, training, mentoring and connecting entrepreneurs to investors and potential partners. These initiatives utilize local partners to develop into leaders that address societal problems and contribute to stronger economies in their home countries.

In 2012, GIST expanded its initiatives to include more countries and regions. In February, CRDF Global and the governments of Kazakhstan, the United States and Russia launched the Central Asia Technology Entrepreneurship (CATE) program with the aim of creating conditions for the development of entrepreneurship in Kazakhstan.

In March, CRDF Global launched a GIST Startup Boot Camp in Istanbul. Acting U.S. Deputy Assistant Secretary for Science, Space and Health, Jonathan Margolis, welcomed 30 Turkish startup teams to the three-day event, which focused on training, mentorship from experts and a business pitch competition. The winner, Ahmet Taskin, a co-founder of Sutech, a company that uses an electromagnetic system to purify polluted water, was awarded the opportunity to join winners from other GIST Transformers Journeys to travel to Silicon Valley, New York, Boston and Washington, D.C.

Known as “GIST Transformers,” these entrepreneurs were selected from winners of previous GIST competitions. They attended training, presentations, networking events and took advantage of mentorship opportunities at leading companies and institutions, including Orrick, Google, Stanford University, MIT and the White House. Several GIST transformers took part in a Congressional briefing on Capitol Hill involving the Senate Small Business Committee. The event highlighted CRDF Global’s innovation programs, focusing on the GIST initiative.

As the GIST Transformers travelled through the U.S., they used innovative outreach strategies including blogging, video and images to share their experiences. One GIST Transformer, Hind Hobeika, has since gained international attention with her invention, Instabeat, a waterproof heart rate monitor that attaches to swim goggles and provides real-time feedback to swimmers.

In November, the first GIST Transformers Journey, an initiative that invited 17 emerging entrepreneurs to travel to Silicon Valley, New York, Boston and Washington, D.C., was launched. The entrepreneurs were selected from winners of previous GIST competitions. They attended training, presentations, networking events and took advantage of mentorship opportunities at leading companies and institutions, including Orrick, Google, Stanford University, MIT and the White House. Several GIST transformers took part in a Congressional briefing on Capitol Hill involving the Senate Small Business Committee.

GIST Transformers attend trainings, presentations and networking events at organizations like Google.

MIT Enterprise Forum Turkey signed a memorandum of understanding to establish a framework for future collaborations to promote and strengthen technology entrepreneurship in Turkey. This new partnership was developed in coordination with the U.S. Department of State’s Bureau of Oceans and International Environmental and Scientific Affairs and the Embassy of Turkey.

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Since the program’s inception. More than 80,000 users of the country’s international publications have increased fourfold can be seen in the outcomes of our first program in Iraq. The management and user training.

With science libraries to instill best practices in digital library take over program operations at the national level and work through our work on VSLs in 10 countries since 2006.

Through mentorship, technical consultation, workshops and through our work on VSLs in 10 countries since 2006. CRDF Global has established national VSLs in Afghanistan, Kazakhstan and Tajikistan, and initiated efforts to sustain them for three years. The VSL program also began facilitating international collaborations in North Korea. To date, CRDF Global has established national VSLs in Afghanistan, Algeria, Armenia, Iraq, Kazakhstan, Kyrgyzstan, Morocco and Tajikistan—serving more than 350 academic institutions and has provided a national VSL assessment for Oman. On average, each country’s VSL provides links to more than 11.5 million full-text research articles from more than 11,000 journals and 47,000 e-books.

CRDF Global’s professional skills program has developed in-house, competency-based curricula and program models to provide comprehensive professional skills development for scientists and engineers at all stages of their careers. Topics covered include strategies for success in proposal develop-

ment; writing and publishing research in international peer-reviewed journals; making oral and poster presentations at professional conferences; organizing and implementing professional short courses; research management for laboratory leaders; securing funding through international collaborations; research ethics, and effective use of online journal and research databases systems. The program can provide single-topics workshops and also work over the long term to build mentoring and training capacity at the institutional and national level. Our capacity-building program models include the development of training and mentorship systems for experienced researchers to provide formal instruction and guidance in career skills for students and young researchers. In addition, we can establish academic support centers to provide ongoing assistance to faculty and students. The program also provides training and expert consultation for funding agencies on peer-review processes and creating joint competitions, and in 2012 it held the first annual International Funding Agency Symposium with the U.S. National Science Foundation.

In 2012, the program organized 34 workshops for more than 2,500 participants. With funding from the Defense Threat Reduction Agency (DTRA), the program led a two-day proposal writing workshop in Tbilisi, Georgia, in May, for 43 Georgian scientists. Nine months after the workshop, CRDF Global administered an impact assessment survey to evaluate the impact and perceived value of the workshop. Responses revealed that each participant, on average, proceeded to train eight additional people in the skills learned in the workshop. Following the workshop, all participants submitted funding proposals, 50 percent of which were to funders they had not previously solicited. The assessment also found the funding rate of proposals on par with the success rate of American researchers (20 percent). The survey of Georgian scientists outlined the positive real, as well as perceived, impact the professional skills workshops have on participants.
Through its focus on building opportunities for international collaboration, CRDF Global’s research partnership programs have allowed the sharing of new research methods, advances in multiple research fields and the procurement of innovative equipment and supplies by labs around the world in 2012. Whether focused on public health challenges, climate change, agriculture or alternative energy sources, CRDF Global’s peer-reviewed research competitions leverage scientific outcomes that are solving global challenges and serving as foundations for future work.

CRDF Global is opening avenues for scientists to collaborate across borders to address emerging global concerns. In June, CRDF Global facilitated the interdisciplinary research conference, “Endemic and Emerging Infectious Diseases,” in Istanbul, Turkey, sponsored by the National Institute of Allergy and Infectious Disease. Researchers from the United States, Europe and the Middle East and North Africa (MENA) region presented findings on vector-borne and zoonotic diseases. Such engagements are critical elements for networking and help to foster new and expanded biomedical research collaborations among investigators and institutions in these regions. Further bolstering the event’s objectives, CRDF Global administered a grant competition to support yearlong research projects between MENA and U.S./European investigators.

Building research partnerships involves not only the strengthening of human capacity, but providing researchers with the necessary training and equipment to realize their goals. With funding from CRDF Global, the Kyrgyz Centre of Geoinformation Systems and the Emerging Pathogens Institute at the University of Florida established the Kyrgyz Consortium of GIS Excellence (KCGE). The project engaged scientific research institutes, universities, public unions and companies across Kyrgyzstan in training workshops to strengthen GIS knowledge, and to provide them with modern equipment. The Consortium established a web-based, resource and learning portal to help improve GIS expertise and stimulate related research, education and business in Kyrgyzstan.

Other collaborative research grant competition activities focused on solving environmental and climate issues. With grant assistance from CRDF Global, researchers from the Plant Institute of Biology and Biotechnology in Kazakhstan and the U.S. Department of Agriculture developed an environmentally sound method of barley production. The team developed 14 barley lines with improved grain quality and cleaner byproducts for animal feed. The grant also provided training and lab visits for the researchers. Another innovative environmental project involved a team of faculty from Donetek National Technical University in Ukraine and the Department of Computer Science at the University of Minnesota. The team developed an online service for analyzing climate data collected by NASA satellites, National Climate Data Center and the European Centre for Medium Range Weather Forecasts. A wide range of weather-related environmental concerns such as storms, drought and other prolonged or severe weather events can be monitored and analyzed through this service.
CRDF Global has a long history of engaging with scientists in developing or recently-transitioned countries and bringing those scientists into the global research community. This takes many forms, from training workshops and conferences to study tours and fellowships that connect emerging nations with the global scientific and policy communities. CRDF Global emphasizes the spirit of cooperation and partnership in all of its programs.

As an example of its science engagement work, CRDF Global implements the Biosecurity Engagement Program (BEP) with funding from the U.S. Department of State. BEP mitigates growing international biological threats by training scientists and researchers on biosecurity and safety practices, improving disease surveillance capabilities and funding laboratory infrastructure upgrades for safety and security. The program promotes the safe use of biological materials and pathogens in research and laboratory settings. At the same time, BEP builds the human capacity of scientists, allowing them to engage with the larger scientific community for professional and personal development.

BEP grantees often work in public health, veterinary or research laboratories with a variety of pathogens, some of them quite dangerous. In 2012, CRDF Global coordinated the travel and training of two Bolivian scientists who travelled to Emory University and completed a five-day course on safety and security for biosafety level three labs (BSL-3). The grantees interacted with international colleagues and attended sessions on risk assessment, personal protective equipment, emergency laboratory procedures, the Biological and Toxins Weapons Convention (BWC) and issues regarding dual use research.

Another example of CRDF Global’s 2012 BEP activities was coordinating the participation of 11 laboratory specialists and scientists from Malaysia, Philippines, Indonesia and Vietnam in the Asia-Pacific Biosafety Association conference in Bali, Indonesia. Held in partnership with the Indonesia Biorisk Association, the conference focused on biosafety during a pandemic; laboratory safety equipment; disinfection and decontamination; and the process of launching a bioscurety management program. The conference provided the BEP-sponsored scientists with tools for developing biosecurity curricula and trainings at their home institutions, and also allowed them to establish new relationships with colleagues from around the world.

CRDF Global’s science engagement programs help to create a worldwide culture of scientific responsibility. These programmatic efforts are a form of science diplomacy, a concept increasingly recognized as a critical path for encouraging a broader dialogue among nations. Many of today’s international challenges—food, water, energy, climate and health—are not confined to any single nation or region. They require cross-border, collaborative solutions, and getting scientists to work together towards these solutions can be a powerful force.

An example of science diplomacy is CRDF Global’s work in the Democratic People’s Republic of Korea (DPRK). CRDF Global is a charter member of the U.S.-DPRK Scientific Engagement Consortium, an action-oriented coalition of non-government, academic and science organizations formed in 2007 with the goal of facilitating opportunities for research collaborations between North Korean scientists and the global scientific community. 2012 accomplishments in this area include conducting English language classes for DPRK scientists and working toward expanding journal access through a Virtual Science Library (VSL) set-up by CRDF Global and the Consortium.

CRDF Global promotes capacity building in the chemical and nuclear science communities through the U.S. Department of State’s Chemical Security Engagement Program. CRDF Global’s work gives scientists the opportunity to learn effective project management for research involving peaceful nuclear and chemical applications. In one instance, CRDF Global arranged for a delegation of 10 Iraqi chemists to attend the March 2012 American Chemical Society National Meeting in San Diego, CA. While there, the grantees networked and formed international collaborations to support scientific rebuilding efforts in Iraq.

In June, CRDF Global also implemented a training under a U.S. Department of State grant to support the Preventing Nuclear Smuggling Program. CRDF Global sponsored 18 scientific and law enforcement experts to attend the 17th annual meeting of the International Technical Working Groups on Nuclear Forensics in The Hague, Netherlands. The workshop included presentations and discussions on nuclear forensics, including laboratory capabilities and data interpretation.

CRDF Global's Science Engagement programs help to create a worldwide culture of scientific responsibility. These programmatic efforts are a form of science diplomacy, a concept increasingly recognized as a critical path for encouraging a broader dialogue among nations. Many of today's international challenges—food, water, energy, climate and health—are not confined to any single nation or region. They require cross-border, collaborative solutions, and getting scientists to work together towards these solutions can be a powerful force.

“We chose this location for its environmental benefits—the first of its kind in Arlington, proximity to other science and technology organizations with whom we work, and its layout which promotes a collaborative work environment and enables us to continue delivering the very best services.”

—President and CEO Cathy Campbell

With a year marked by changing global events and the organization’s adjustments to meet new challenges, the organization’s staff and leadership see clear operational benefits of the new offices.

“Whether it’s supporting research collaborations, helping build science capacity, promoting entrepreneurship and innovation, engaging scientists, or delivering services and transferring money efficiently, what we do depends on the integration and cross-fertilization of all our capabilities,” said Campbell. “We believe this new office environment will help us to work even better.”

Each year at its annual gala, CRDF Global presents the George Brown Award for International Scientific Cooperation to recognize those who embody extraordinary vision and leadership in advancing international cooperation in science and technology.

Named in honor of California Rep. George Brown (1920-1999), who served as chairman of the House Committee on Science and was well known in Congress for his work on international science and technology issues, the award is given in recognition of his actions that laid the foundation for what would become CRDF Global.

In 2012, CRDF Global recognized three individuals for their scientific, humanitarian, academic and entrepreneurial achievements.

**2012 Honorees**

**William H. Draper, III**  
General Partner of Draper Richards L.P  
Co-Chairman of the Draper Richards Kaplan Foundation

**Dr. David A. Hamburg**  
President Emeritus of Carnegie Corporation of New York  
Former President of AAAS and the Institute of Medicine

**Dr. Charles M. Vest**  
President Emeritus of the National Academy of Engineering  
President Emeritus of Massachusetts Institute of Technology
## Financial Statement 2011

**Consolidated statement of activities for the year ended December 31, 2011***

<table>
<thead>
<tr>
<th>Statement of Activities</th>
<th>Unrestricted</th>
<th>Temporarily Restricted</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grants and Contracts</td>
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<td>(3,023,281)</td>
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<td><strong>Program Expenses:</strong></td>
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<td></td>
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<td>Centers, Institution Building and Innovation</td>
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<td>5,861,980</td>
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<td>Cooperative Research Grants</td>
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<td>Nonproliferation</td>
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<td>10,024,405</td>
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<td>Middle East and North Africa</td>
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<tr>
<td>Other Programs</td>
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<td><strong>Total Program Expenses</strong></td>
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<tr>
<td>Solutions Services</td>
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<td><strong>Total Expenses</strong></td>
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<td>26,105,050</td>
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<tr>
<td><strong>Change in Net Assets Before Discontinued Operations</strong></td>
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<td>(2,523,281)</td>
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<tr>
<td>Loss From Operations of Discontinued Components (including loss on disposal of $479,036)</td>
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<td>(1,563,799)</td>
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<tr>
<td><strong>Total Expenses</strong></td>
<td>26,105,050</td>
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<td>26,105,050</td>
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<tr>
<td><strong>Change in Net Assets After Discontinued Operations</strong></td>
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<td>(1,057,935)</td>
</tr>
<tr>
<td>Loss From Operations of Discontinued Components (including loss on disposal of $479,036)</td>
<td>(1,563,799)</td>
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<td>(1,563,799)</td>
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<tr>
<td><strong>Total Change in Net Assets</strong></td>
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<td>(1,831,734)</td>
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<tr>
<td>Net Assets at Beginning of Year</td>
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<td>Net Assets at End of Year</td>
<td>$6,229,315</td>
<td>$6,715,490</td>
<td>$12,945,005</td>
</tr>
</tbody>
</table>

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*The information presented here is drawn from the 2012 consolidated financial statements of CRDF Global and Subsidiary, which were audited by McGladrey & Pullen, LLP in accordance with generally accepted auditing standards and presented to the CRDF Global Board of Directors at its June 2013 meeting.

## Financial Statement 2012

**Consolidated statement of activities for the year ended December 31, 2012***

<table>
<thead>
<tr>
<th>Statement of Activities</th>
<th>Unrestricted</th>
<th>Temporarily Restricted</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grants and Contracts</td>
<td>$20,251,261</td>
<td>$927,567</td>
<td>$21,178,828</td>
</tr>
<tr>
<td>Solutions Services</td>
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<td>1,425,101</td>
</tr>
<tr>
<td>In-kind Contributions</td>
<td>1,431,862</td>
<td>68</td>
<td>1,431,930</td>
</tr>
<tr>
<td>Net Assets Released from Restrictions</td>
<td>1,590,013</td>
<td>(1,590,013)</td>
<td>—</td>
</tr>
<tr>
<td><strong>Total Revenues</strong></td>
<td>26,098,837</td>
<td>(2,662,978)</td>
<td>24,035,859</td>
</tr>
<tr>
<td><strong>Program Expenses:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Centers, Institution Building and Innovation</td>
<td>5,802,069</td>
<td>—</td>
<td>5,802,069</td>
</tr>
<tr>
<td>Cooperative Research Grants</td>
<td>2,694,107</td>
<td>—</td>
<td>2,694,107</td>
</tr>
<tr>
<td>Nonproliferation</td>
<td>11,960,129</td>
<td></td>
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<td>354,448</td>
<td>—</td>
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</tr>
<tr>
<td>Other Programs</td>
<td>541,841</td>
<td></td>
<td>541,841</td>
</tr>
<tr>
<td><strong>Total Program Expenses</strong></td>
<td>20,598,146</td>
<td>—</td>
<td>20,598,146</td>
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<tr>
<td>Solutions Services</td>
<td>1,612,592</td>
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<td>1,612,592</td>
</tr>
<tr>
<td><strong>Total Expenses</strong></td>
<td>26,210,738</td>
<td>—</td>
<td>26,210,738</td>
</tr>
<tr>
<td><strong>Change in Net Assets Before Discontinued Operations</strong></td>
<td>(1,563,799)</td>
<td>—</td>
<td>(1,563,799)</td>
</tr>
<tr>
<td>Loss From Operations of Discontinued Components (including loss on disposal of $479,036)</td>
<td>(1,563,799)</td>
<td>—</td>
<td>(1,563,799)</td>
</tr>
<tr>
<td><strong>Total Change in Net Assets</strong></td>
<td>(3,156,498)</td>
<td>—</td>
<td>(3,156,498)</td>
</tr>
<tr>
<td>Net Assets at Beginning of Year</td>
<td>11,715,490</td>
<td>12,945,005</td>
<td>24,660,495</td>
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<tr>
<td>Net Assets at End of Year</td>
<td>$4,799,814</td>
<td>$4,052,512</td>
<td>$8,852,326</td>
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</tbody>
</table>

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*Disposal of GTI: CRDF Global disposed of their subsidiary, GTI. CRDF Global has no continuing involvement in the operations of GTI. For the years ended December 31, 2012 and 2011, GTI incurred $1,383,663 and $984,134 in expenses and generated revenue of $298,900 and $210,730, respectively. These amounts are reported as discontinued operations on the statement of activities.
Executive Staff

Ms. Cathleen A. Campbell
President & CEO

Mr. John Hurley
Senior Vice President

Mr. Shawn Wheeler
Vice President
Global Operations and
Program Support Services

Mr. Wayne Harvey
Chief Financial Officer

Locations

CRDF Global Offices

Headquarters
1776 Wilson Boulevard, Suite 300
Arlington, Virginia 22209
Tel.: 703-526-9720
Fax: 703-526-9721
www.crdfglobal.org

Russia/Eurasia
Ulitsa Miklukho-Maklaya 16/10
Room 204
Moscow 117997, Russia
Tel.: 7-495-662-3717
Fax: 7-495-662-3716

Kazakhstan/Central Asia
151/115 Corner Radostovets Str.
Abay Ave.
Almaty District, Almaty
Republic of Kazakhstan
Tel./Fax.: 7-7172-50-24-05

Ukraine/Eastern Europe
4 Bogomoltsa Street
Office 134-135
01024 Kyiv, Ukraine
Tel.: 380-44-253-7223
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