

# Community Involvement Report 2001-2005

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Draper Laboratory



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## PRESIDENT'S MESSAGE



Since our last report was issued in July 2000, Draper Laboratory has continued a program of philanthropy and community outreach that was formalized in 1984. Aligned to our business interests and educational mission, this program demonstrates a strong investment in the local community's quality of life. Support is manifested principally through financial grants through our Contributions Program, in-kind services and donations, technical advice and assistance, and volunteer efforts of our staff. The Office of Public and Employee Communications administers these philanthropic activities under the supervision of Kathleen Granchelli.

During fiscal years 2001-2005, we donated \$550,000 to educational, human service, and arts programs that serve local residents. During that same time period, Draper donated thousands-of-dollars worth of furniture and scientific and office equipment to community agencies, to the Cambridge Public Schools, and to nonprofit organizations with which our employees have affiliations. Thousands-of-dollars worth of in-kind services also were provided to community groups.

In addition to Draper's corporate contributions, our employees have volunteered an estimated total of 2,840 hours in the past two years. Most of these efforts have been focused in two areas: engineering, science, and technology education, and human services. The Cambridge Public Schools have been a chief beneficiary of our efforts to improve the quality of engineering and science education for middle and high school students. Our awareness of community issues and needs is heightened through our staff's participation in a number of local civic and community organizations.

Draper remains strongly committed to our efforts to help enhance the welfare of the community through direct support, volunteerism, and collaboration with other institutions, community partners, and businesses. We look forward to continuing our involvement in local efforts that support Cambridge and its residents.

Vincent Vitto  
President & CEO



At Draper's Tech Expo, Engineer Linda Fuhrman describes to local high school students Draper's involvement in the development of a prototype Mars Airplane for NASA.

### Supporting Science and Technology Education

The support of advanced technical education and technology transfer is one element of Draper's corporate mission, and our interest in advancing engineering and science education through our community outreach programs is a natural extension of our mission. The principal beneficiary of Draper's educational programs and activities is the Cambridge Public Schools.

- Three Draper staff members serve on Cambridge Rindge and Latin School's (CRLS) Rindge School of Technical Arts (RSTA) Advisory Committee to help support the school's pre-engineering, biotechnology, and CAD programs.

## EDUCATION

- Draper has joined other local businesses and educational institutions to support the development of the **Superintendent's Science Initiative** in Cambridge and was involved in the outreach and support of the fall 2005 Science in the City event at CRLS.
- Draper also has joined the advisory board of the **United Way's new Math, Science and Technology Initiative**.
- Individual Draper engineers are involved directly with the educational achievements of Cambridge youth and **professional development for teachers**.
- Five Draper employees have volunteered as teachers in the **Science Club for Girls** after-school program, which provides girls in grades K-7 with an opportunity to participate in hands-on science activities in a fun, nurturing, and interactive environment. The program also provides mentoring opportunities, by allowing girls in grades 8-12 to work as junior assistants.

- Draper provides financial support to **National Engineers Week**, a national program to encourage interest in engineering education. NEW is celebrated annually in February and is administered by the National Society for Professional Engineers.
- **Other Outreach**--Draper engineers have assisted outreach efforts of the **MIT Museum** through its "100 years of flight" program in 2004 and its Saturday Family Adventures in Science and Technology programs in 2005. A cadre of our engineers volunteer as judges at both the **Massachusetts State Science Fair** and local school science fairs during the year as well as at special events, such as the technology fair/information forum for high school guidance counselors sponsored in 2005 by the **Museum of Science**. Most recently, staff participated in **Cambridge's Science in the City**, supporting a city-wide initiative to expose middle- and high-school students and their parents to research and technology developments being conducted at area high tech and life sciences companies.



Drs. Angela Zapata and Heather Clark pose with Draper's 2005 Biomedical Engineering Summer Intern.

## Providing Students with Exposure to Engineering Fields and Careers

### Tours, Speakers, and Events

- The Lab provides tours of its facilities and speakers for local civic and educational groups. Over the past four years, tours have been provided for students from Cambridge and other local public schools, as well as MIT, Wentworth Institute, and Boston University. The Simulation and Modeling Laboratory, Intelligent Unmanned Autonomous Vehicle Lab, CAD/CAM facility, Rapid Prototyping facility, Machine Shop, and Media Services are some of the groups that have offered demonstrations of their work.
- Draper invites Cambridge public school students to events during the school year, including our annual **Technology Exposition** and the **Draper Prize Lecture**, an event co-hosted by the Museum of Science. In addition, staff visit classrooms upon request and participate in local career fairs.



Technical Staff Member John Mahoney explains Draper's computer-aided precision machining capabilities to Wentworth Institute students.

### Key Pal Program

Approximately 20 Draper employees participate each year in the Key Pal Program at the Kennedy-Longfellow School. This electronic pen-pal program pairs the entire sixth grade one-to-one with adult volunteers from Draper Laboratory and our partners in the program--MIT and IBM. The goal of the program is to improve writing and computing skills, as well as to heighten awareness of career choices and of the link between education and career options.

### Giving Teens Work Experience

- Draper staff continue to serve as mentors and supervisors to Cambridge high school students in career-related, entry-level work experiences. CRLS students gain summer employment experience at Draper primarily through **JustaStart's TeenWork** program. Both administrative and engineering groups at Draper have supported this effort.
- In 2004, Draper began participating in an internship program with **North Cambridge Catholic High School**, in which students intern one day per week in lieu of regular classes. Local students have been working in Draper's Communications and Human Resources offices.



Engineer Dan Anderson enjoys lunch with his Key Pal.



Human Resources staff member Nicole McNamara meets with North Cambridge Catholic High School interns.

- In the summer of 2005 Draper sponsored a Biomedical Engineering Internship for one CRLS student who worked on a research project during the paid, eight-week internship.

#### Financial Support

- **Financial Contributions**--Donations to a wide variety of educational programs are made through Draper's Contributions Program. See the Contributions Program section of this report for a list of donations made in Draper Fiscal Years 2001-2005.
- **Scholarships**--Draper provides scholarships to Massachusetts State Science Fair award recipients who focus their project in an engineering discipline; to graduating CRLS students who plan to study engineering in college; and to a Lesley University undergraduate student studying science education.



One of the recipients of Draper's Lesley University scholarship. (Photo courtesy of Lesley University)

## COMMUNITY COLLABORATIONS

Collaborations among community organizations, human service agencies, and businesses provide an opportunity to pool resources and forge unity among members. Since 2001, Draper has continued many of its long-term partnerships in Cambridge, and it has joined in new collaborations as well.

### The Kendall Community Group

Draper is a founding member of the Kendall Community Group, a unique business-community collaboration. Its mission is to encourage business philanthropy by providing financial, in-kind, and volunteer support to the youth programs of three human service providers in Cambridge's Area IV: the Community Art Center, the Margaret Fuller Neighborhood House, and Tutoring Plus of Cambridge, Inc. The Group has raised more than \$850,000 for the agencies' youth programs over its 18-year history. The Cambridge Community Foundation serves as the Group's fiscal agent.

### Civic and Community Participation

Members of Draper's management and staff serve on boards of nonprofit community agencies and civic groups. These include the Cambridge Chamber of Commerce and its Outreach Committee, Cambridge Rotary Club, Cambridge Family YMCA, and Salvation Army.

Draper staff also are members of the Cambridge Funders Group, Associated Grant Makers, the local emergency preparedness planning committee, and the Cambridge Police Private Security Coalition.



Vice President Joseph M. Wolfe, Jr., serves on the boards of the Cambridge Rotary Club, YMCA, and Salvation Army. (Left to right: Major Carroll of the Salvation Army, Wolfe, YMCA Development Director Denise Jillson, and Cambridge Rotary Club President Justin Slate)



Draper employees worked at the Cambridge Community Center during the United Way's 2003 Community Care Day. (Left to right: Suzanne Rose, Edward Hartnett, Helen Gillis, Cambridge Community Center Director Janet Kendrick, Jacky Bonarrigo, Peter Lovell, Cheryl Balordi, and David Gay)

### United Way

Draper runs a company-wide fundraising campaign to support the United Way of Massachusetts Bay every October. Contributions are raised solely from employee donations and various fundraising activities organized by employees. Since 2000, Draper's campaigns have raised over \$946,000.

A team of Draper employees also participates in the United Way's annual Community Care Day through which the team is matched with a local human service agency to perform a service. Agencies assisted by Draper's Community Care Day have included The Guidance Center, Inc. and Cambridge Community Center.

## EMPLOYEE GIVING

### Contributions to United Way of Massachusetts Bay

2000	\$126,000	2001	\$150,990
2002	\$158,355	2003	\$155,111
2004	\$176,194	2005	\$179,840

### Matching Fund Drives to Support National and International Relief Efforts

Since 2001, Draper employees have responded enthusiastically to three separate company-matched fundraising drives for relief efforts to benefit victims of September 11, the 2004 tsunami, and Hurricane Katrina. A total of \$56,000 was raised for the September 11 Fund (American Red Cross and Salvation Army Attack on America); nearly \$79,000 for Tsunami Relief (UNICEF and Save the Children); and over \$131,000 for the Katrina Relief effort (American Red Cross and America's Second Harvest).

### Other Giving

In addition to fundraising campaigns, Draper provides a number of annual giving opportunities throughout the year for employees, including two blood drives for the American Red Cross, an annual Daffodil Day fundraiser for the American Cancer Society, and an annual holiday toy drive.

## CONTRIBUTIONS PROGRAM

Draper Laboratory established its Contributions Program in 1984 to support local educational programs in science and engineering, human service programs, and arts and cultural programs serving Cambridge residents.

Draper's Communications Office operates the program with the assistance of an employee review committee. Three subcommittees, each corresponding to one of the three major grant areas, review the submitted proposals and make funding recommendations to the whole committee at quarterly meetings held in September, December, March, and June.

Grants are usually made in the range of \$250-\$2500. Only one grant per fiscal year is made to an organization. (Draper's fiscal year is July 1 to June 30.) Requests for program or operating support are considered; contributions to capital or endowment campaigns are rarely made. The yearly budget for fiscal years (DFY) 2001-2005 was \$110,000. The budget for DFY2006 is \$125,000.

More information about the application process can be found on the web at [www.draper.com/corporate/outreach/guidelines.htm](http://www.draper.com/corporate/outreach/guidelines.htm) or contact Ellen Avery.

Phone: 617-258-2196

E-mail: [contributions@draper.com](mailto:contributions@draper.com)



MIT's Seed Academy, which provides engineering enrichment to local public school students, is funded, in part, by Draper's Contributions Program. (Photo courtesy of Seed Academy)

CONTRIBUTIONS PROGRAM

Donations DFY 2001-2005

Agencies Funded in Draper Fiscal Years 2001-2005	Years Awarded
Adolescent Consultation Services	2001-2005
Afterworks	2001-2005
Agenda For Children	2003-2004
Algebra Project	2001
American Friends Service Committee -- Immigrants Festival	2001-2002
American Repertory Theatre	2001-2003
Associated Day Care Services	2002
Associated Early Care & Education	2004-2005
Associated Grantmakers of Massachusetts Summer Fund	2001-2005
Ballet Theatre of Boston	2001-2005
Bank of America Celebrity Series (Formerly Fleet Boston Celebrity Series)	2001-2005
The Bell Foundation	2001
Big Brothers of Massachusetts Bay	2001-2003
Big Sister Association of Greater Boston	2001-2005
Boston Area Rape Crisis Center	2002-2005
Boston Lyric Opera Company	2001-2003 & 2005
Boy Scouts of America Boston Minuteman Council	2001-2004
Boys and Girls Club of Middlesex County	2003 & 2005
Bridge Over Troubled Waters	2001-2005
Brown Bag Opera	2002-2004
Cambridge Art Association	2001-2003
Cambridge Arts Council	2005
Cambridge Babe Ruth League	2001-2002
Cambridge Camping Association	2003
Cambridge Cares About AIDS	2001-2005

## CONTRIBUTIONS PROGRAM

Donations DFY 2001-2005

<u>Agencies Funded in Draper Fiscal Years 2001-2005</u>	<u>Years Awarded</u>
Cambridge Center for Adult Education:	
English as a Second Language Program	2001
Community Music Outreach Program	2001-2005
Cambridge Community Center	2002 & 2004-2005
Cambridge Community Services	2001-2005
Cambridge Community Television	2001-2003
Cambridge Human Services Dept. Area IV Youth Fair	2001
Cambridge Human Services Dept. City Run Road Race	2001-2005
Cambridge Family & Children's Services	2001-2005
Cambridge Family YMCA	2001-2005
Cambridge Firemen's Relief Association	2001 & 2003-2004
Cambridge Health Alliance	2001-2002
Cambridge Historical Society	2001
Cambridge Housing Authority: Workforce Literacy Initiative	2003-2005
Cambridge Housing Assistance Fund	2004
Cambridge Multicultural Arts Center	2001-2004
Cambridge Partnership for Public Education	2001-2002
Cambridge Performance Project	2003
Cambridge Police Mutual Aid Association	2002-2003
Cambridge Pop Warner	2001-2002
Cambridge Public Schools: Kennedy Amigos 8th Grade Field Trip	2001
Cambridge Public Schools: Baldwin School	2004-2005
Cambridge Public Schools: Kennedy Longfellow School - art class	2004
CRLS Basketball/Football and Athletics	2001-2005
CRLS Scholarship	2001-2005
CRLS Yearbook (ad)	2001& 2003-2005

CONTRIBUTIONS PROGRAM

Donations DFY 2001-2005

Agencies Funded in Draper Fiscal Years 2001-2005	Years Awarded
CRLS Safety Fair Evening	2001
CRLS Summer Art Class	2003
Cambridge Rindge School of Technical Arts (RSTA)	2004
Cambridge Rotary Educational Fund	2004
Cambridge School Volunteers	2001-2005
Cambridge Senior Volunteer Clearinghouse	2001-2005
Cambridge Symphony Orchestra	2004
Cambridge Teacher Association	2004
Cambridge Youth Guidance Center	2002
Cambridge Youth Soccer (MAPLE League)	2001-2003
Cambridgeport Children's Center	2004
CASPAR	2004
Central Square World's Fair	2001
Centro Presente	2002
Central Square Business Association	2001
Child Care Resource Center, Inc.	2003-2005
Citybridge New England	2004-2005
Citysprouts	2003-2005
Community Preservation Act. Com.	2002
Community Servings	2001-2002 & 2004-2005
Cooperative Artists Institute/Tribal Rhythm	2001
Dance Collective of Boston	2001-2005
Damian Society	2003-2005
East Cambridge Little League	2001-2002
East End House	2001-2003 & 2005
Families First	2001-2005

## CONTRIBUTIONS PROGRAM

Donations DFY 2001-2005

Agencies Funded in Draper Fiscal Years 2001-2005	Years Awarded
Farr Academy	2004-2005
First Holiness Church	2003-2004
Food for Free Committee	2002 & 2004-2005
Friends of King Open School, Science Club for Girls	2001-2003 & 2005
Friends of King Open School, Open Arts Committee	2005
Greater Boston Food Bank	2003-2005
Haitian Coalition	2002
Handel & Haydn Society	2001-2005
Harrington Seniors	2001-2005
Harvard Early Music Society	2001
Hildebrand Family Selp-Helf Center	2001-2004
Homestart	2001-2005
Huntington Theatre Company	2001-2005
Industrial Theater	2001
JAM'NASTICS Inc.	2002
Jeffrey Curley Memorial Fund	2002-2003
Jewish Family and Children's Services	2005
Junior Achievement	2001 & 2004-2005
Just-A-Start	2002-2005
Kendall Community Group	2001-2005
Lesley College Scholarship Fund	2001-2005
Longy School of Music	2001-2004
Margaret Fuller Neighborhood House	2003
Massachusetts Alliance of Portuguese Speakers	2001-2005
Massachusetts Audubon Society	2002-2005
Massachusetts Coalition for the Homeless	2001

CONTRIBUTIONS PROGRAM

Donations DFY 2001-2005

Agencies Funded in Draper Fiscal Years 2001-2005	Years Awarded
Massachusetts Police Association	2004
Massachusetts Pre-Engineering Program	2001
Massachusetts State Science Fair	2001-2005
MIT Museum	2001
MIT List Visual Arts Center	2005
Mt. Auburn Hospital	2001
Musica Sacra, Inc.	2004
NAACP Cambridge Branch - M.L. King Scholarship	2001-2005
NARCONON	2001-2002
New England Handicapped Sports Association	2001-2005
New England String Ensemble	2001
New School of Music	2003-2005
North Division Cambridge Little Baseball League	2001-2004
On the Rise	2002
Operation Able	2002
Passim Folk Music	2001-2003 & 2005
Peace Games, Inc.	2001-2005
Phillips Brooks House Association	2001
Pro Arte Chamber Orchestra of Boston	2001-2005
PROMYS Program in Mathematics for Young Scientists	2001-2002
Prospect Hill Charter School	2004
The Publick Theater	2003-2004
Radius Ensemble	2001-2005
Recording for the Blind and Dyslexic	2001-2005
Saint Paul Episcopal Church	2001
Salvation Army	2001-2004

## CONTRIBUTIONS PROGRAM

Donations DFY 2001-2005

### Agencies Funded in Draper Fiscal Years 2001-2005

### Years Awarded

Samaritans of Boston	2001-2005
SCM Community Transportation	2005
Seed Academy	2003-2004
Self-Esteem of Boston	2005
Shelter, Inc.	2001-2003
Solutions At Work	2001 & 2003
Somerville-Cambridge Elder Services, Inc.	2001-2005
Somerville Mental Health Association	2005
Studebaker Theater	2004
Summerbridge Cambridge	2001-2005
Temporary Care Services	2002
Training Innovations	2002
Transition House	2001
Tutoring Plus of Cambridge, Inc.	2004
Underground Railway Theater	2002-2005
United Way Special Events Fund	2002-2005
Waltham Fields Community Farm	2001 & 2003-2005
Wellmet Project	2001
Women's Center	2001-2002 & 2004-2005
World Music	2003-2004
YWCA Cambridge	2001-2002

### In-Kind Support and Donations

The Laboratory has provided thousands of dollars worth of photocopying services and donations of scientific equipment and office furniture and equipment to the Cambridge Public Schools and nonprofit organizations in our community.

### RECOGNITION

Director Kathleen Granchelli received a 2004 Leading Role Award from Cambridge Community Television for her service to the Cambridge community.

Editor and Key Pal site coordinator Allison Looney received the Mack Davis Volunteer Award from Cambridge School Volunteers, Inc., also in 2004.



Draper provides in-kind printing and photocopying services to local nonprofit agencies.

## THE CHARLES STARK DRAPER LABORATORY, INC.

Draper Laboratory is an independent, not-for-profit, applied research and development laboratory committed to solving challenging problems for government and commercial sponsors. Our engineers, scientists, and support personnel represent a variety of disciplines and are contributing to the development of new technologies and systems for space, defense, and biomedical engineering applications.

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