



Massachusetts
Institute of
Technology

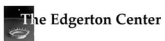


**International
Development
Forum**

**The Guide to International
Development @ MIT
2005**

<http://web.mit.edu/idf>

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Division of
Student Life



DtM@MIT The Design that Matters club at the
Massachusetts Institute of Technology

77 Massachusetts Avenue, Building 3-208
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September 29, 2005

Dear IDF Attendees:

It is my great pleasure to welcome you to the 2005 International Development Forum. Since 2002, the IDF has provided an essential introduction to the many MIT individuals in clubs, classes, competitions, and laboratories involved in development efforts.

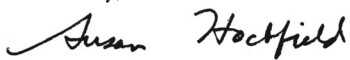
Rich opportunities are highlighted at the Activities Fair and in the IDF Guide, and I urge you to discover and explore them. Some take the form of internships abroad through Public Service Fellowships or through MISTI (MIT International Science and Technology Initiatives). Others involve curricular field experiences such as the Development Lab or Global Entrepreneurship Lab. You may choose to participate in one of hundreds of research projects on global development or become involved with themes ranging from clean energy and healthcare technologies to novel educational media and sustainable urbanization.

We at MIT are proud of our long tradition of engagement with development issues. MIT has played a special role in building intellectual capital and spreading educational opportunity and in helping establish and strengthen universities around the world. Today, through MIT OpenCourseWare, we leverage the Web to make educational materials for well over a thousand MIT subjects freely available to all.

At the same time, MIT research continues to spur the creation of entirely new industries. Our alumni and alumnae meet pressing human needs through the establishment of new companies and NGOs, and our students run over a dozen annual conferences on development, including the Global Sustainability Conference and the Global Startup Workshop, which offer opportunities to share lessons learned and build international networks.

MIT's mission is to bring knowledge to bear on the world's great challenges, and our students, faculty, and staff do this with tremendous intensity and passion. It is precisely such a combination of innovation and commitment that we need in the field of sustainable development, and I encourage you to make your own contributions to this vital effort.

Sincerely,



Susan Hockfield

Welcome

The MIT International Development Forum is pleased to welcome you to the third annual MIT International Development Fair. The goal of the fair is to introduce incoming students and other members of the MIT community to the student groups, classes, centers, programs and academic departments at MIT who, through their activities, have demonstrated an interest in sustainable international development. We encourage you to familiarize yourself with the student groups, classes, centers, programs, and departments participating in the fair and mentioned in this guide. They represent opportunities for MIT students to become informed participants in the global effort to promote justice and sustainable development.

The content of this guide and other useful information can be viewed online at our web site (<http://web.mit.edu/idf>). We welcome your suggestions for how we could improve on this guide and next year's fair. We also welcome your ideas for how to promote a greater understanding at MIT of the Institute's potential to be a leader in sustainable international development.

Finally, we would like to express our gratitude for the generous support of the Technology and Culture Forum, the Public Service Center, Design that Matters, the Edgerton Center, the Graduate Student Council, MIT TechLink, the Center for International Studies, and the Division of Student Life.

Sincerely,

The IDF Planning Team

- Elizabeth Basha (*EECS*)
- Joost Bonsen (*MIT Sloan and TechLink*)
- Heidi Knuff (*Center for International Studies*)
- Monica Lewis (*Design That Matters*)
- Amy McCreath (*Technology and Culture Forum*)
- Amy Smith (*Edgerton Center*)
- Sally Susnowitz (*Public Service Center*)
- Patricia Weinmann (*Technology and Culture Forum*)

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Guide to Participating Organizations

MIT Africa Internet Technology Initiative

URL: <http://web.mit.edu/mit-africa/www/home/index.html>

Contact: Bryant Harrison, <mit-aiti-exec@mit.edu>

Description: MIT-AITI is an innovative program started by MIT students to integrate computers, Internet technology, and entrepreneurship into the education of students in African schools and universities. The program uses innovations such as cutting-edge programming tools and open-source systems to introduce African students to the Internet, and to equip them with skills that encourage them to be creative and resourceful. Given that information technology carries the potential to empower people around the globe, African students need to be equipped with the tools and skills needed for the development of information technology. The program aims to serve a wide audience across gender and income levels. AITI has succeeded in improving the quality of education at the schools by teaching African teachers, thus enabling sustainable development of the curriculum at each school.

Participation: Graduate and Undergraduate students with strong interest, passion, and dedication and willingness to work with people from different cultures and backgrounds; faculty can be advisors; offices can sponsor MIT students

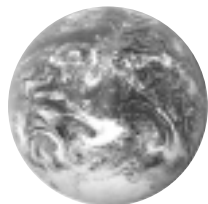
AID-MIT

URL: <http://web.mit.edu/aid-boston>

Contact: Ramya Rajagopalan <rr68@mit.edu>, Vinay Mahajan <vinaysm@mit.edu>, Sreeja Gopal <sreeja@mit.edu>

Description: AID-MIT (Association for India's Development, MIT chapter) aims to generate awareness about social issues, such as poverty, illiteracy, and inadequate healthcare, which are of importance to India and other developing countries. We collaborate with other AID chapters to raise funds for development projects in India. We also host visits by volunteers from NGO's who are working at the grassroots level in India, so that the MIT community can learn from their experiences in the field. We run an annual seminar series focusing on the interface between technology and development, and feature guest speakers who are researchers in medicine, science and engineering. The seminar series highlights ways in which technology is or could be applied to improving the welfare of people in developing countries.

Participation: Any member of the MIT community



Amnesty International

URL: <http://web.mit.edu/amnesty>

Contact: Shankar Mukherji <mitai-exec@mit.edu>

Description: Amnesty International is the world's largest human rights organisation. In addition to advocating on behalf of individual prisoners of conscience, Amnesty International has embraced advocacy of a full spectrum of economic, social, and cultural rights due to all people.

Participation: Participation is open to all individuals dedicated to the advancement of human rights

Asha

URL: <http://www.ashanet.org/mit/>

Contact: Parthiv Shah <parthiv@mit.edu>, Silpa Kaza <skaza@mit.edu>

Description: Asha for Education is a secular organization dedicated to change in India by focusing on basic education in the belief that education is a critical requisite for socio-economic change. In keeping with this focus, our volunteers are involved with and support projects that are secular and have an education-related component to them. The objectives of this group are:

1. To provide education to underprivileged children in India.
2. To encourage the formation of various local groups across the world to reach out to larger sections of the population.
3. To support and cooperate with persons and groups already engaged in similar activities.
4. To raise the required human and other resources to achieve the group objectives.
5. To provide opportunities to individuals living outside India who wish to participate in Asha activities in India.
6. To address, whenever possible, other issues affecting human life such as health care, environment, socio-economic aspects and women's issues.

Participation: Anyone, including the MIT and non-MIT community

MIT Careers Office

URL: <http://web.mit.edu/career/www>

Contact: <mitco@mit.edu> for general inquiries.

Description: The Careers Office can serve as a resource to students who are seeking international development related careers. These students are likely to use strategies such as networking, research on contacts, exploration, and a targeted job search vs. on-campus recruiting. We can offer expertise in the use of these strategies.

Participation: Our office is open to undergraduates, graduate students, and alumni (as well as postdocs)

Center for International Studies

URL: <http://web.mit.edu/cis/>

Contact: cis-info@mit.edu

Description: The Center for International Studies (CIS) aims to support and promote international research and education at MIT. Whenever possible, we capitalize on MIT's great strengths in science and engineering, examining the international aspects of these fields as they relate to both policy and practice, and focusing on those issues where science and engineering intersect most closely with foreign affairs. CIS includes 160 members of the MIT faculty and staff, mainly drawn from the departments of political science and urban studies, and visiting scholars from around the world. We sponsor formal programs, multidisciplinary working groups and numerous public events. While CIS does not offer teaching programs, the Center's faculty and staff engage with students as colleagues in research, audiences in public events, and enthusiastic participants in the MISTI international internship program. We also assist MIT students in obtaining external funds for international activities through the CIS fellowship database.

Participation: Visit our website for information on specific programs

Clean Water for 1 Billion People (H2O-1B)

URL: <http://web.mit.edu/watsan>

Contact: Susan Murcott <murcott@mit.edu>, Tommy Ngai <Tommy.Ngai@alum.mit.edu>

Description: Clean Water for 1 Billion People (H2O-1B) is a vision and network of people in the MIT community committed to bringing safe, clean water to the billion + people in the world who lack it, as well as to addressing related issues of water availability, sanitation and hygiene. We are based in the Civil and Environmental Engineering Department, Master of Engineering Program, which has run a series of projects on water and sanitation in development countries since 1998. As well, H2O-1B is affiliated with the Edgerton Center's "International Development Initiative" and, since 2002, has involved members of Sloan's G-Lab course.

Participation: Anyone

CraftWire

URL: N/A

Contact: Shaunak Roy <shaunak@mit.edu>

Description: CraftWire is a socially conscious organization with the objective of empowering Indian artisans by promoting their handicrafts in key international markets. CraftWire recognizes that innovative product development and proper supply chain planning are two of the most crucial elements for empowering Indian artists. As a test case, CraftWire has developed the first range of products with the help of NGOs working with artisan communities in Gujarat, India and is actively market testing them in the United States. CraftWire is also in the process of developing web-based commerce systems that would act as a platform for product innovation and efficient supply chain planning for its success and rapid growth.

Participation: Anyone

D-Lab

URL: <http://web.mit.edu/d-lab>

Contact: Amy Smith <d-lab@mit.edu>

Description: D-Lab is a series of courses and field trips that focus on international development, appropriate technologies, and sustainable solutions for communities in developing countries. In the fall, students learn about international development and appropriate technology through case studies, guest speakers and hands-on laboratory experiences (SP.721). During IAP, students work on site with partner organizations to implement projects and identify further technical challenges on which to collaborate. Language and cultural training program prepares students for the trip. In the spring, students can take a design studio (SP.722) or a seminar on project implementation (SP.723) to develop solutions to the problems identified during the IAP field trip. Students can return to their host communities over the summer to test their designs and get feedback to refine their solutions. They can continue working on the projects the following fall in a product development seminar (SP.724) or through independent UROPs or theses.

Participation: Students who register and take the class, or international student groups that would like to host a field site

MIT Design for Demining

URL: <http://mit.edu/demining>

Contact: Andrew Heafitz <heafitz@mit.edu>, Benjamin Linder <blinder@alum.mit.edu>

Description: Humanitarian Demining is the process of detecting, removing and disposing of landmines. Millions of landmines are buried in more than 70 countries resulting in 20,000 civilian victims every year. MIT Design for Demining is a project-based course (SP 776) that spans the entire product design and development process from identification of needs and idea generation to prototyping and blast testing to manufacture and deployment. Technical, business and customer aspects are addressed. Students learn about demining while they design, develop and deliver devices to aid the demining community.

Participation: All undergraduate and graduate students from all departments



Photo by Design that Matters

Design that Matters

URL: <http://web.mit.edu/dtm>

Contact: Monica Lewis <dtm-exec@mit.edu>

Description: The Design that Matters (DtM) club at MIT aims to enable students and faculty to use their skills to serve developing communities worldwide. DtM aims to provide comprehensive support for student design projects, create extracurricular opportunities to give hands-on experience in development work, maintain relevant resources to projects, and raise awareness within the MIT community about technology and its interaction with development.

Participation: Anyone in the MIT community

Emerging Markets Club

URL: <http://web.mit.edu/emarkets>

Contact: Amitabh Chandrashekhar <amitabh@mit.edu>, James Drake <jdrake@mit.edu>, Jay Sappidi <sappidi@mit.edu>

Description: The Emerging Markets Club seeks to understand and interpret the key development-related issues that present opportunities or represent challenges/constraints for business and to interpret the key policies and practices related to emerging economies that have special relevance to the Sloan Community.

Participation: Anyone

MIT Expediting Access to Standard Education (EASE)

URL: <http://web.mit.edu/ease/www>

Contact: Evita Grant, Ato Ulzen-Appiah, Tendai Chizana, ease-exec@mit.edu

Description: EASE sponsors the education of needy children in Africa at the middle and high school levels. We currently sponsor over 100 children in Ghana and hope to expand to other African countries.

Participation: Anyone committed to service

Global Systems for Sustainable Development (GSSD)

Laboratory

URL: <http://gssd.mit.edu>

Contact: Prof. Nazli Choucri <nchoucri@mit.edu>, Dinsha F. A. Mistree <dmistree@mit.edu>, and Behram F. T. Mistree <bmistree@mit.edu>

Description: GSSD is an adaptive and evolving global knowledge system dedicated to sustainable development based on distributed networking principles and practices. Designed to help identify and develop innovative approaches, enabling technologies, as well as new institutional, financial and regulatory mechanisms, the GSSD domain spans over the complex dimensions of the sustainability challenges - at all levels and all parts of the world. A set of knowledge management, search, and navigation functionalities allow users to customize their own site inputs into the system and/or to tailor specific retrieval queries over the GSSD knowledge base.

Participation: Anyone interested in sustainability challenges

Grassroots International

URL: <http://grassrootsonline.org>

Contact: Azalia Mitchell <amitchell@grassrootsonline.org>

Description: Grassroots International promotes global justice through partnerships with social change organizations. We work to advance political, economic and social rights and support development alternatives through grantmaking, education and advocacy.

Participation: Anyone

Harvest Co-op Markets

URL: <http://www.harvest.coop>

Contact: Christopher Durkin, Director of Membership and Community Relations, Harvest Co-op Market 581 Massachusetts Ave Cambridge, MA 02139. Phone: 617-661-1580 x 132

Description: We promote and sell Fair Trade products. We were the first customer for Equal Exchange Coffee, and now sell FT coffee, tea, cocoa, chocolate, bananas, mangos (when available), and soon hope to add sugar, rice, and more fruits

Participation: We are a member owned consumer co-op, but are open to the public 8 am to 10 pm every day

IDEAS Competition

URL: <http://web.mit.edu/ideas>

Contact: Alison Hynd <ideas-admin@mit.edu>

Description: The MIT IDEAS Competition provides teams with the opportunity to develop their creative ideas for projects that make a positive change in the world. With over \$20,000 in awards, as well as additional development grants, teams can take an effective step towards resolving pressing community needs. Projects are judged for their innovation, feasibility and impact.

Participation: Each team must be at least 1/3 MIT students; anyone can join the IDEAS staff



Photo/Courtesy Pawan Sinha, MIT

International Development and Regional Planning (IDRP)

URL: <http://web.mit.edu/dusp/www/academics/idrp/index.html>

Contact: Karen R. Polenske <krp@mit.edu>

Description: The International Development and Regional Planning (IDRP) group is devoted to international-development issues. We are considered to be the premier planning group working on the critical issues of globalization, regional and urban development, and industrialization from an economic, social, and political perspective. We deal not only with the technical issues of planning, but we teach and conduct research about the institutional underpinnings, such as the laws, property rights, and codes of behavior of the countries in which we work. We not only have a large number of faculty and students working on these issues on all continents in the world, but we teach and conduct research in a large number of unique areas of which other schools can only dream.

Participation: Any faculty, student or staff with an interest in international development

Inter-University Committee on International Migration and affiliates

URL: <http://web.mit.edu/cis/www/migration/>

Contact: Sharon Stanton Russell <srussell@mit.edu>, Feiya Huang <feiya@mit.edu>, Timea Pal <palt@mit.edu>

Description: International migration has numerous, complex, and bi-directional (cause and effect) interactions with virtually all aspects of development. The Inter-University Committee on International Migration (IUCIM) is a program of the MIT Center for International Studies. Activities include two seminar series; workshops and conferences; and until December 2005, the Mellon-MIT Inter-University Program on Non-Governmental Organizations (NGOs) and Forced Migration, which awards small grants for field-based research and internships. Applications for the final round of grant awards are due October 7, 2005 for field work to be conducted during IAP/winter break. The Inter-University Committee also publishes working papers and reports on various aspects of international migration. More information is available at <<http://web.mit.edu/cis/www/migration/>>. Separate but affiliated programs include:

- 1) The Inter-University Initiative on Humanitarian Studies and Field Practice (HSI), which allows eligible graduate students to incorporate education in the field of humanitarian studies into their respective programs of study. Details may be found at <www.humanitarianstudies.org>.
- 2) The Working Group on Migration and Development (WGMD) is a student-initiated group based at MIT, which holds presentations and discussions on emerging topics in migration and development. The Working Groups schedule of meetings is available at <<http://web.mit.edu/polisci/research/wgmd.html>>.

Participation: Everyone interested

Laboratory for Energy and the Environment

URL: <http://lfee.mit.edu>

Contact: Amanda Graham <agraham@mit.edu>, Beth Conlin <bconlin@mit.edu>, Karen Gibson <kgibson@mit.edu>

Description: The Laboratory for Energy and the Environment fosters collaboration among industry, government, academia, nongovernmental organizations, and the public to address not only the complex interrelationships between energy and the environment, but also the technological, economic, and social aspects of sustainable energy development and use. LFE's mission is to make significant innovative contributions to energy and environmental sustainability, including the improvement of technologies, structures, and policies that will lead to cleaner, more effective, efficient, and equitable products and processes.

Participation: Undergraduate and graduate students

MIT Learning International Networks Consortium

URL: <http://linc.mit.edu>

Contact: Professor Richard C. Larson, Carol Sardo, <lincinquiries@mit.edu>

Description: LINC is an MIT-affiliated initiative established to enhance the delivery of high quality Distance Education and E-Learning to university and lifelong learning students in the developing world. The Internet and satellite communications have opened virtually all parts of the world to information, news, education and more. For higher education in developing countries, this has provided a unique opportunity. Many of these countries have burgeoning young populations, often with 50% of the citizens less than 25 years of age. Capacity constraints at brick and mortar universities restrict the fraction of young people who can attend university to 2 to 4 percent of the population. This is in contrast to 40 to 60 percent in the developed western world. The Internet and communication satellites provide ways to increase dramatically educational capacity via distance learning without building more brick and mortar facilities and without having to train thousands of new teachers.

Participation: LINC was established as an all-volunteer MIT activity aimed at linking together people and organizations concerned with technology-enabled higher education in developing regions of the world. It is a community of practitioners and scholars whose purpose is to share best practices and to learn from each others mistakes, in order to move forward with successful distance learning projects in higher education in the respective countries



Middle East Education through Technology (MEET)

URL: <http://meet.csail.mit.edu>

Contact: Yaron Binur, Anat Binur, Kwan Hong Lee, Peter Thatcher Clay, Reuben Sterling, <mit-officers@meet.csail.mit.edu>

Description: MEET is an innovative educational initiative aimed at creating a common professional language between Israeli and Palestinian young leaders. MEET's uniqueness lies in its development of a conflict resolution model that is based on working towards a non-political common goal that empowers the individuals involved and provides a forum for professional interaction and teamwork. MEET enables its participants to acquire advanced technological and leadership tools while empowering them to create positive social change within their own communities.

Each summer MEET sends MIT graduate and undergraduate students to Jerusalem for 6 weeks to teach Computer Science, Software Development and Entrepreneurship to Israeli and Palestinian high school students.

Participation: All undergraduate and graduate students, as well as alumni

MIT International Science and Technology Initiatives (MISTI)

URL: <http://web.mit.edu/misti>

Contact: Bernd Widdig <bwiddig@mit.edu>, Pat Gercik <gercik@mit.edu>, Sean Gilbert <seang@mit.edu>, April Julich Perez <ajulich@mit.edu>, Sigrid Berka <sberka@mit.edu>, Deepti Nijhawan <deeptin@mit.edu>, Serenella Sferza <ssferza@mit.edu>, Daniela Reichert <reidani@mit.edu>, Amy Kirkcaldy <kirkcald@mit.edu>, Saro Derian <sderian@mit.edu>

Description: Over the last ten years, MISTI has placed more than 1,700 MIT students as interns in labs and offices from Beijing to Berlin. Currently MISTI has country programs in China, France, Germany, India, Italy, Japan, Mexico, and Singapore. Before their departure interns are trained in the language and culture of the host country. MISTI participants emerge from their stays abroad with the capacity to build enduring professional relationships across national and cultural boundaries.

Participation: Any MIT students: language requirements vary for each program

Oxfam America

URL: <http://www.oxfamamerica.org>

Contact: Rose Radin <rradin@oxfamamerica.org>, Xavier Benavides <xbenavides@oxfamamerica.org>

Description: Oxfam America is a Boston-based international development and aid agency focusing on the issues of hunger, poverty and social injustice. Working with local partners, Oxfam delivers development programs and emergency relief services, and campaigns for change in global practices and policies that keep people in poverty. Oxfam America is currently working in over 30 countries including the US.

Participation: Anyone interested in global campaigns to create change

MIT Philippine Emerging Startups Open (PESO)

URL: <http://web.mit.edu/peso>

Contact: Neil Ruiz <nruiz@mit.edu>, Karlo Laforteza <LafortezaK@sloan.mit.edu>

Description: The purpose of MIT PESO is to serve as a medium for transferring knowledge and expertise on entrepreneurship between the MIT community in the U.S. and the Filipino entrepreneurs in the Philippines. The group aims to establish PESO, an entrepreneurship program and competition, through which the group will build a rich entrepreneurship environment in order to achieve the following objectives: - Foster the spirit of innovation and enhance knowledge and skills in the entrepreneurship process among Filipino youth. - Promote productive ties between academia, industry, and venture capitalist sectors in the Philippines. - Stimulate a new generation of ideas that will create successful Philippine ventures with global stature. - Inspire Filipino youth to take the path of entrepreneurship in fueling the economic development of the Philippines

Participation: Anyone interested in entrepreneurship, development, and the Philippines

MIT Program on Human Rights and Justice

URL: <http://web.mit.edu/phrj/>

Contact: Karim Abdul-Matin, Professor Balakrishnan Rajagopal <phrj@mit.edu>

Description: The MIT Program on Human Rights and Justice (PHRJ) is a collaborative effort between the Center for International Studies (CIS) and the Department of Urban Studies and Planning (DUSP). It is the first human rights program in a leading technology school, and the first in the world with a specific focus on the human rights implications of economic, scientific and technological developments. Cross-cultural dimensions of human welfare, security and dignity animate all of PHRJ's activities. Offerings have included speaker series, workshops, conferences, student internships, and a fellowship program



MIT Public Service Center

URL: <http://web.mit.edu/mitpsc>

Contact: Sally Susnowitz <susnowit@mit.edu>, <psc@mit.edu>

Description: The MIT Public Service Center (PSC) offers planning assistance, grants, and Public Service Fellowships. In collaboration with the Edgerton Center, the PSC also supports the Service Learning Initiative, including Public Service Design Seminars, and the IDEAS Competition, which encourages innovative designs, products, and systems that meet community needs worldwide. Also in partnership with the Edgerton Center, the PSC is creating the MIT International Development Initiative, which will increase the capacity of MIT students to collaborate with and develop products for communities in developing regions throughout the world.

Participation: Public Service Fellowships are open to all MIT graduate and undergraduate continuing students; grants and planning assistance are available to all MIT community members for projects that involve MIT students in public service. Faculty and alumni are also welcome as project and class mentors

Results

URL: <http://www.results.org>

Contact: Stacy Carkonen <scarkonen@results.org>

Description: RESULTS works with citizens all across the country to create the political will necessary to end hunger and the worst aspects of poverty by educating members of Congress about the long term sustainable solutions that will bring millions of people out of poverty. RESULTS aggressively works to set policy priorities and engages citizens to actively engage in our democracy.

Participation: Anyone



Sloan Entrepreneurs for International Development

URL: <http://web.mit.edu/seid>

Contact: Jeff Coker <jcoker@sloan.mit.edu>, Esmeralda Megally <esmeralda.megally@sloan.mit.edu>, Elisabeth Megally <elisabeth.megally@sloan.mit.edu>, Anu Chitrapu <achitrapu@sloan.mit.edu>, Jane Kaggwa <janekaggwa@sloan.mit.edu>

Description: SEID is a community of students engaged in solving international development challenges through innovative and sustainable entrepreneurial initiatives. The club's objectives are three fold: - To act as a catalyst for students to engage in entrepreneurial ventures that benefit causes in the developing world. - To expose Sloan students to technological resources and innovations directed towards developmental enterprises. - To bridge Sloan students with academic and career opportunities related to International Development.

Participation: Any MIT student

Special Interest Group in Urban Settlement (SIGUS)

URL: <http://web.mit.edu/sigus/www>

Contact: Dr. Reinhard Goethert <sigus@mit.edu>

Description: SIGUS links housing and community development interests of the Departments of Architecture and Urban Studies and Planning. It focuses on participatory technique through short workshops and courses, and undertakes research on innovative approaches in support of the low-income. Although the emphasis is in developing countries, the philosophy equally applies to the so-called developed world.

Participation: Anyone

South Asian American Students (SAAS)

URL: web.mit.edu/saas/www

Contact: Varsha Keelara <vkeelara@mit.edu>, Silpa Kaza <skaza@mit.edu>, <nids@mit.edu>, <mdesai@mit.edu>

Description: South Asian American Students (SAAS) is one of the largest groups on campus, representing Indians, Pakistanis, Bengladeshis, Sri Lankans, Nepalis and other South Asians at MIT. SAAS was founded with the purpose of celebrating the diversity of South Asian culture. SAAS is committed to not only providing a means for South Asian Americans to delve into their own background, but to also allow students of any ethnicity to explore South Asian traditions.

Participation: Anyone

MIT Student Pugwash

URL: <http://web.mit.edu/pugwash/>

Contact: Christopher Sequeira <csequeir@mit.edu>, Cassandra Roth <rothc@mit.edu>

Description: MIT Student Pugwash encourages the MIT community to think about how their science and technology work impacts, has impacted, and could impact humanity.

Participation: Anyone

Students for Global Sustainability

URL: <http://web.mit.edu/sfgs>

Contact: Samantha Sutton, Elke Hodson, Ari Shapiro, Masahiro Sugiyama, Jeff Gritton, Shan Riku, <sfgs-exec@mit.edu>

Description: SfGS is committed to promoting the basic tenets of sustainable development through a combination of education and action. As part of the World Student Community for Sustainable Development (WSC-SD), SfGS is a local student chapter that acts on a local and regional scale. Recent projects include: Studio sustainability publication, written by SfGS members, a sustainability lecture series, a volunteer project with Boston's sustainable urban agriculture project, The Food Project the sustainable containers project, Earth Day celebration, work with the MIT Solar Power Initiative.

Participation: Anyone who desires to make a difference

The Technology and Culture Forum at MIT

URL: <http://web.mit.edu/tac/www>

Contact: Patricia Weinmann <weinmann@mit.edu>

Description: The Technology and Culture Forum at MIT sponsors lectures and symposia that address critical issues of our time. The programs explore the role of science and technology in promoting positive social, ecological, and economic change. In addition, they stimulate discussion about the ethical implications of scientific discovery and technological innovations.

Participation: A Steering Committee coordinates T&C events. All MIT students, faculty and staff, and the public are invited to all events



Photo by Stuart Darsch

MIT Western Hemisphere Project

URL: <http://web.mit.edu/hemisphere>

Contact: Marion Dumas, Anna Bershteyn, Elise Olson, Kaia Dekker, Zheng Gong, <hemisphere-manboard@mit.edu>

Description: This semester our activities will include: - Conference on ethnomedicine and bioprospecting in biologically and culturally diverse countries. - Radio show set up as a forum of exchange between local communities and academia on issues of importance to our hemisphere. - Indigenous film series. - Panel on CAFTA to understand the economic arguments for and against it. Spring plans include a memorial for the desaparecidos of Argentina and a film festival on indigenous issues.

Participation: All members of the MIT community and all curious people of the local Boston-area community with an interest in learning and exploring complicated issues

Young Activists Network

URL: <http://www.youngactivists.net/>

Contact: Leo Burd <yan@media.mit.edu>

Description: Our goal is to organize youth to become agents of change in their neighborhoods. Young people usually have the time, the energy, the will, the basic skills, and the right to participate and help improve the quality of life in the places where they live. Recently we have partnered with community organizations from the Boston area and other countries. Currently we are building a website and developing telephone-based tools to connect the different sites and improve our work. Help is very much welcome!

Participation: We usually need volunteers to work with youth on a weekly basis



Photo by Stuart Darsch

Index of Development-Related Resources at MIT

MIT Resources

MIT is a great environment for resourceful people. Programs and departments may have funds available to students who work in the areas they represent. Administrators and department Chairs may have discretionary funds that they might apply to interesting projects. Student government resources may be available for local fundraising activities that can in turn support international development work. Also consider working through established resources such as research teams, the IDEAS Competition, D-Lab, and Alternative Spring Break. In other words, it is important to think strategically when it comes to resource acquisition at MIT.

Here are a few funding and information resources:

Carroll L. Wilson Award

Purpose: To provide opportunities for MIT graduate students to study an important societal problem with international dimensions

Amount: Four or five \$5,000 awards are awarded each year

Time commitment: Approx. six weeks

Eligibility: MIT graduate students selected through a competitive evaluation of proposals by the Carroll Wilson Award Selection Committee

Website: http://entrepreneurship.mit.edu/wilson_award.php

Eloranta Fellowship

Purpose: Student-originated and/or directed research, investigation, or creative study in any field

Amount: \$6,000 Allowable expenses: living expenses, travel, or materials and services costs

Time commitment: Full-time summer occupation

Eligibility: MIT undergraduates (including June graduates)

Timing: Early April application deadline for summer award

Website: <http://web.mit.edu/eloranta/>

International Development Initiative

Purpose: IDI grants make it possible to lead or develop a project that involves MIT students in international development

Amount: Variable

Allowable expenses: Materials and transportation

Eligibility: Open to MIT community. Students and faculty are especially encouraged to apply

Timing: Rolling deadline

Website: <http://web.mit.edu/idi/programs.html#idg>

Kelly/Douglas Traveling Fellowship

Purpose: To enable MIT juniors who are committed to further work in the humanities, arts or social sciences to travel to develop a scholarly project to support theses or other future work

Amount: \$500

Time commitment: Full-time summer occupation

Allowable expenses: Living expenses, travel, or materials and services costs

Eligibility: MIT juniors Timing: mid-April application deadline for summer award

Website: <http://web.mit.edu/mta/www/music/resources/kellytraveling.html>

Program on Human Rights and Justice

Purpose: To provide MIT students the opportunity to study human rights issues firsthand at the field level or through applied research

Amount: \$5,000 maximum

Time commitment: 8-12-week summer

Allowable expenses: Living and travel expenses

Eligibility: Graduate and undergraduate students

Timing: Late March application deadline for summer award

Website: <http://web.mit.edu/phrj/internships.html>

Public Service Center Grants

Purpose: Community service work, including conference attendance related to service leadership and training; group programs and events; individual service projects

Amount: Variable

Allowable expenses: Materials and transportation

Eligibility: MIT graduate and undergraduate students who will be enrolled for at least one semester following the grant project

Timing: Applications accepted monthly

Website: <http://web.mit.edu/mitpsc>

Public Service Center Fellowships

Purpose: Independent community service projects that provide sustainable benefits

Amount: Variable

Time commitment: IAP or summer

Allowable expenses: Living expenses, travel, materials, or stipends

Eligibility: MIT graduate and undergraduate students who will be enrolled for at least one semester following the Fellowship

Timing: October application deadline for IAP award; April deadline for summer award

Website: <http://web.mit.edu/mitpsc>

External Service Project and Funding Resources

So, you've decided to do community service overseas. You're excited, full of energy, and eager to find a place to go. You get on your favorite search engine and type "international community service" and WHAM. Thousands of websites, databases, and organizations fill your screen. Two hours later, frustrated and with blurry eyes, you're convinced it is impossible to find a project you really like at a cost you can afford.

Though it's easy to get frustrated when attempting to identify an appropriate service project on the internet, it is important to remember the following: The reason you are bogged down with thousands of project sites and funding sources is because so many are available! Not all of them will apply to you, and not all of them will be exactly what you want or need. Keep in mind that there is a project that's right for you, and remember that with a little hard work and creativity, funding can be found for even the most unusual request. Here are a few websites to get you started:

A great website for international service is the **University of Minnesota Learning Abroad Center** (<http://www.umabroad.umn.edu>). This site contains a database of over 600 service opportunities all over the world, and is searchable by keyword, region, type, and compensation. In addition, they have a database of over 200 funding sources and scholarships. Geared toward college students, this is an excellent place to start.

Another useful college website is the **Northeastern University Center of Community Service** (<http://communityservice.neu.edu/links.htm#service>) which contains websites for international service and funding.

There are plenty of databases for international service sites on the web. These usually contain hundreds of websites for organizations that sponsor service projects around the globe. Please read them carefully, as many may not apply to students. They may also vary depending on whether you are looking for an established project, or funding for a project of your own design. For a list of organizations that promote volunteering abroad, and descriptions of the opportunities available, visit **Idealist.org** at (<http://www.idealist.org/career/travel.html>).

For a list of funding opportunities for international service projects, try (<http://www.fund-snetservices.com/internat.htm>) and (<http://www.proposalwriter.com/intgrants.html>).

Another way to search for funding and projects is to look for the exact field in which you are interested. For example, the **Directory of International Grants and Fellowships in the Health Sciences** (<http://www.fic.nih.gov/news/directory.html>) is a comprehensive compilation of hundreds of international opportunities in biomedical research.

Good luck, and happy hunting!



Suggested Courses

Though there is not a formally organized course of study focused on sustainability at MIT, there are many classes that provide a chance for students to develop their understanding of issues related to sustainable international development. In addition to this general overview of the class offerings related to sustainable international development, the IDF website (<http://web.mit.edu/idf/getinvolved.html>) provides a comprehensive list of course offerings.

Course 1: Civil and Environmental Engineering

Classes in numerous areas of study, including (among others) environmental chemistry and biology, geotechnical and geoenvironmental engineering, environmental fluid mechanics and coastal engineering, and transportation

Course 2: Mechanical Engineering

Classes on environmentally benign engineering, sustainable energy, and more generally on the applications of technology in energy and the environment

Course 3: Materials Science and Engineering

Classes in industrial ecology, sustainable energy, and the relation between industry, technology, and ecology

Course 4: Architecture

Classes on sustainable settlement design and low-income housing in developing countries

Course 5: Chemistry

A class on the applications of technology in energy and the environment

Course 10: Chemical Engineering

Classes on sustainable energy and the applications of technology in energy and the environment

Course 11: Urban Studies and Planning

Classes in the following four specialization areas: City Design and Development; Environmental Policy; Housing, Community and Economic Development; and International Development and Regional Planning. They also offer classes in Transportation Planning and Policy, and Urban Information Systems

Course 12: Earth, Atmospheric, and Planetary Sciences

Classes in science and environmental policy, alternative energy sources, global change science, global atmospheric pollution and the economics, science, and policy of global climate change

Course 14: Economics

Numerous classes on the theoretical, institutional, and policy aspects of international and development economics

Course 15: Management

A range of classes on international management, as well as classes on global entrepreneurship, technology strategy, and the relation between sustainability, trade, and the environment



Photo by Stuart Darsch

Course 17: Political Science

Classes in a number of research areas, including (among others): ethnicity and identity; the politics and political economy of globalization; environment, defense, science, and energy policy studies; humanitarian intervention

Course 21A: Anthropology

Classes on environmental struggles, the relation between technology and culture, debating globalization, and the relation between gender, power, and international development

Course 21F: Foreign Languages and Literatures

Classes on communicating across cultures, working in a global economy, and on the relation between culture and globalization

Course 21H: History

A class on the relation between imperialism, nature, and the environment

Course 21L: Literature

Classes on the literature of exploration, exile, and cultural contact, and problems in cultural interpretation

Course 22: Nuclear Engineering

Classes on sustainable energy, nuclear energy economics and policy analysis, systems analysis of the nuclear fuel cycle, and the applications of technology in energy and the environment

Biological Engineering

Classes on toxicology and public health, and infectious agents and the environment

Engineering Systems Division

A highly diverse range of offerings including, for example, classes on technology and policy, energy systems and economic development, the regulation of chemicals, radiation, and biotechnology, the relation between sustainability, trade, and the environment, and a class on the policy choices surrounding environmental issues

Harvard-MIT Division of Health Sciences and Technology

Classes on health economics, medical innovations, and biomedical enterprise

Media Arts and Sciences

Classes on developmental entrepreneurship, design, arts, and education

Science, Technology, and Society

Classes on environmental conflict and social change, the historical and philosophical foundations of environmental policy, contemporary food politics, and the relation between energy, environment, and global politics

Special Programs & Undergraduate Seminars

Classes on turning ideas into inventions, the history of technology, trends in global change, and more

On a final note, IAP offers many opportunities where informal and credit-bearing classes are available, many with development relevance (<http://web.mit.edu/iap/>)

Beyond the Institute

MIT and its alumni have a long and rich history of founding, building, and leading for-profit and non-profit organizations that have transformed the human condition.

Energy – blueEnergy, GreenFuel, Evergreen Solar

Transportation – Solectria, ZipCar, General Motors, Logistics.com, Ford Motors

Shelter and Urbanization – Mapjunction.com, PlaceLab, China Housing Project

Health Care – Dimagi, Low Cost Eyeglasses, Akaza Research, Genentech, Ancora Pharmaceuticals

Media, Communications, and Computing – First Mile Solutions, AfricaOnline, SOHU.com, WiderReach

Water – Ionics, Inc. (water purification)

Food and Nutrition – Campbell's Soup (food preservation technology), MedicalFoods

Impact Assessment – Poverty Action Lab

Education – MIT OpenCourseWare, DesignThatMatters.org, EDC.org, Howtoons.org, co-founded CalTech, Stanford, Babson College, Birla Institute of Technology and Science

Finance – WAY Systems (mobile payment solutions), KPCB (venture capital)



International Development Stories from TechTalk

Wampler plans African AIDS clinics – An MIT architecture professor has completed a design prototype to build at least 20 pediatric AIDS care centers in Lusaka, the capital of Zambia. June 8, 2005

<http://web.mit.edu/newsoffice/2005/zambia-0608.html>

MIT team designs tsunami-resistant houses – Using high-tech engineering principles, an MIT/Harvard team has developed a low-tech solution to the problem of how to build homes in tsunami-prone areas. May 26, 2005

<http://web.mit.edu/newsoffice/2005/saferhouse.html>

Fact-finding trip to Mozambique planned – Many people in Mozambique still lack access to clean water and basic sanitation, but a group of MIT students is working hard to change all that. May 16, 2005

<http://web.mit.edu/newsoffice/2005/mozambique.html>

Students tackle flooding in Honduras – Eight MIT students spent spring break 2005 in Tocoa, Honduras, working on an automated flood early warning system and visiting towns that had been damaged by flash flooding in October 1998. April 25, 2005

<http://web.mit.edu/newsoffice/2005/honduras.html>

Buddhists help rebuild Sri Lanka – Sri Lankan families left homeless by the tsunami could find themselves living in an enclave of MIT-designed housing if the efforts of MIT's Buddhist chaplain and an urban studies researcher are successful. March 15, 2005

<http://web.mit.edu/newsoffice/2005/srilanka-housing.html>

Irrigation could boost Chinese food production – Initial findings by an MIT team evaluating how water and land limitations affect food production in China suggest that the country should be able to raise enough food to feed its growing population if it expands irrigation. January 20, 2005

<http://web.mit.edu/newsoffice/2005/china.html>

Boat brings hope to Indian villagers – Two MIT researchers have joined forces with a humanitarian effort half a world away to help bring relief to a region of India routinely flooded by monsoonal rains each year. November 17, 2004

<http://web.mit.edu/newsoffice/2004/hopeship-III7.html>

Students work to engineer solutions in Ghana – Seven engineering students from schools on three continents converged in Ghana last summer to help identify some of the persistent problems plaguing its rural areas and bring the problems to the attention of engineers. November 5, 2004

<http://web.mit.edu/newsoffice/2004/enghana.html>

MIT filter cleans water – An easy-to-use, inexpensive filter developed by MIT researchers for treating contaminated drinking water will be installed in 25 Nepalese villages this year. March 9, 2004

<http://web.mit.edu/newsoffice/2004/nepal.html>

26.

Dream village rising in wake of quake – The dream of a safe new Turkish community, hatched in the wake of an earthquake that killed at least 15,000 and destroyed dozens of towns and villages, is becoming a reality for 50 displaced families this summer. July 22, 2003

<http://web.mit.edu/newsoffice/2003/turkey.html>

Air pollution in Mexico City – An international team is working to help Mexican policy-makers find ways to reduce Mexico City's severe and persistent air pollution. April 2, 2003

<http://web.mit.edu/newsoffice/2003/mexico-0402.html>

Sight for poor eyes – A Media Lab graduate student has invented a machine to make low-cost prescription eyeglass lenses for people in the developing world who can't afford them now. December 17, 2002

<http://web.mit.edu/newsoffice/2002/eyeglasses.html>



Photo by Saul Griffith

Team works toward energy-efficient Chinese homes –

Researchers demonstrated that a group of energy-efficient low-rise buildings could provide the same living conditions as energy-consuming high-rise structures. December 11, 2002

<http://web.mit.edu/newsoffice/2002/china-1211.html>

Bringing clean water to Nepal – A team of eight MIT students and their advisor brought their ingenuity and technical skills to villages in Nepal. May 22, 2002

<http://web.mit.edu/newsoffice/2002/nepal-0522.html>



Photo by Donna Coveney

Students promote Ghana business – Six current and former students have founded Ghana New Ventures Competition Inc., which is dedicated to promoting entrepreneurship in the developing African nation. March 13, 2002

<http://web.mit.edu/newsoffice/2002/ghana-0313.html>

Solution for high-tech African problem – Amy Smith (MIT) used her knowledge of science and engineering to invent a very low-cost, low-maintenance device to help test for microorganisms in water supplies. November 29, 1999

<http://web.mit.edu/newsoffice/1999/incubator.html>

27.

MIT Career Office Opportunities

<http://web.mit.edu/career/www>

A central mission of the MIT Careers Office is to help students connect what they are learning at MIT with the work they want to pursue in the 'real world.' The Careers Office can provide students with an opportunity to clarify values, develop and explore career options, and formulate a strategy for pursuing these goals, including resume, cover letter, and interview preparation.

The Careers Office can serve as a resource to students who are seeking international development related careers. These students are likely to use strategies such as networking, research on contacts, exploration and a targeted job search rather than on-campus recruiting. We can offer expertise in the use of these strategies.

Please visit our website <http://web.mit.edu/career/www/services/> to take advantage of any of our services. You may schedule an individual appointment with a career professional to discuss any career concerns, by phoning us at 617-253-4733. Students are welcome to use our services at any time of year to help you hone your networking and job search skills but some of our services (workshops, walk-ins, and mock interviews) are limited to the fall and spring terms only.

Numerous student organizations as well as MIT programs connect the MIT community with opportunities to make a difference in international development. See:

MIT INTERNATIONAL DEVELOPMENT-RELATED RESOURCES

MIT Career Office Tips Guide on International Development Careers
<http://web.mit.edu/career/www/guide/intldev7.04.pdf>

MIT Careers Office links on International Development, NGOs, and Related Careers
<http://web.mit.edu/career/www/graduate/fieldinfo.html#international>

Examples of Reference Materials

Career Opportunities for American Planners in International Development, APA, 1994
[Rotch Library - Reference Collection | HD87.55.C67 1994]

Good Works: A Guide to Careers in Social Change. Barricade Books, 1994
[Dewey Library - Stacks | AS29.5.G66 1993] and see <http://goodworksfirst.org>

Great Careers: The Fourth of July Guide to Careers, Internships, and Volunteer Opportunities in the Nonprofit Sector, Garrett Park Press, 1990

Guide to Careers in World Affairs. Impact Publications.(3rd edition) 1993
[Dewey Library - Stacks | HF5549.5.E45.G79 1993]

World Directory of Environmental Organizations [Science Library - Reference Collection | S920.W67]

Hoover's Handbook of World Business: a Directory of American Firms Operating in Foreign Countries [Dewey Library - Reference Collection | HG4009.H66]

OTHER INTERNATIONAL DEVELOPMENT-RELATED LINKS*

Columbia University's School of International Public Administration offers many useful links: <http://www.sipa.columbia.edu/ocs/Resources/index.html>

- Choose "Fact Sheets" and then the relevant topic, for example, the UN System, Think Tanks, Foreign Service, Development Consulting, etc.
- Choose "Web Links" and the relevant topic, such as International Development, International Economic Policy, International Energy, International Trade, NGO's, etc.

UCSD Graduate School of International/Pacific Studies offers links to many international development resources: http://www-irps.ucsd.edu/resources/cccr_internet.php

International Employment Weekly: <http://www.internationaljobs.org/contents.html>

Database of international health organizations: <http://www.ldb.org/iphw/links.htm>

The Institute for OneWorld Health, a nonprofit pharmaceutical company focusing on international health: <http://www.oneworldhealth.com/>

International Development & Environment Jobs & Consultancies: <http://www.devnetjobs.org/>

The Venture Consortium resources to explore options in international development: http://www.theventureconsortium.org/public_interest/c_searching.php?area=international&type=resources

Michigan State University graduate program on Women and International Development. (Select internet resources for general links and then links by continent):
<http://www.wid.msu.edu/>

Duke University's Intergovernmental Organizations: <http://docs.lib.duke.edu/igo/subject.html>

The Italian Mission to International Organizations in Geneva website on international organizations: <http://missions.itu.int/~italy/vacancies/valinks.htm>

International students or students with multiple citizenships might have an advantage. For example, opportunities available for Swiss people in various international agencies: <http://www.eda.admin.ch/eda/e/home/foreign/intorg/iojobs/news.html>

International students should check their state department's webpage.

For more links on International Development, NGO's, and Related Careers, see: <http://web.mit.edu/career/www/graduate/fieldinfo.html#international>

State Department - Bureau of International Organization Affairs (IO):
<http://www.state.gov/p/io/empl/>

US AID - Features career resources (including internships and new professional programs) that might be of help: <http://www.usaid.gov/careers/>

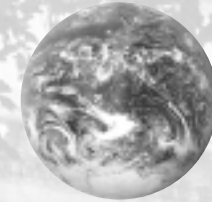
Boston Area Network on International Development: <http://www.bnid.org/research.php>

*(With thanks to the Graduate Counselors' Consortium, made up of over 60 AAUP research universities in the US)

Be sure to check with the friendly MIT librarians and browse their on-line subject guide:

<http://libraries.mit.edu/guides/subjects/development/>

Notes



International Development Forum

Special thanks to Bill ('56) and Betsy Leitch and Peter Fiekowsky ('77).

What is **sustainable development**?



Originally formalized by the landmark 1987 Brundtland Report, sustainable development is generally understood as economic, technological, and political development which allows the needs of the present generation to be met without compromising the ability of future generations to meet their needs.



**International
Development
Forum
2005**

<http://web.mit.edu/idf>