

International Development, Community, and Environment



News & Views

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Cover: Compton Fellow Saeed Banie Abubakari ID/MA '04 helps with a community training in Za'ari in northern Ghana.

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Message from the Director



Partnerships are key to the achievement of IDCE's mission: these include partnerships between IDCE and other academic institutions and local organizations,

between IDCE and its neighbors, among colleagues, and, of course, between faculty and students. This issue of the IDCE News & Views highlights our "Wealth in Partnerships" on global and local levels.

Our collaboration with academic institutions includes Clark's recent agreement with the Centro Interamericano de Recursos del Agua (CIRA) in Mexico, which will encourage internships and joint research incorporating GIS-based analytical tools. In Africa we have had strong connections for more than a quarter of a century, including partnerships

with Egerton University in Kenya and, most recently, the Institute for Environmental Studies at Cheikh Anta Diop University in Senegal. IDCE and ISE, under the Fulbright Educational Partnerships Program, will develop short courses and trainings for faculty and students from both institutions.

Two Fulbright Scholars will become academic partners at IDCE next fall. Dr. Francis Bacho, a Ph.D. in geography, will participate in a Fulbright Scholar Exchange from the Faculty of Integrated Development Studies (UDS) in Ghana. IDCE will also host a New Century Fulbright Scholar from Nepal, Dr. Meena Acharya, to conduct research on "Making Markets Work for Women." Dr. Gail Lewis from the Faculty of Social Sciences, Open University in Milton Keynes, United Kingdom will be a visiting scholar.

IDCE's many collaborations with organizations described in this issue result in opportu-

nities to conduct field research from Ethiopia and Nepal to the Blackstone River Watershed and the Piedmont neighborhood in Worcester. In these projects, IDCE students put theory into practice, as with the Somali community in Lewiston, Maine. In turn, our community partners reap benefits in the form of community action plans, data collection and analysis, and trainings. Student-faculty research addresses issues such as the proposed Talo Dam in Mali to the first inventory of greenhouse gas emissions in Worcester. In this issue, articles about our faculty, students and alums also illustrate how individuals at IDCE have effectively built partnerships to achieve their community-building, academic, and career goals. In sum, partnerships are the strength of IDCE, and we continually add new partners to enrich our programs and broaden our outreach.

William F. Fisher
Director, IDCE

Collaborations Around the World Enrich IDCE

Partnerships are key to the mission of IDCE, providing opportunities for curriculum enrichment as well as student and faculty field research worldwide. A recent collaboration with ISE (**Institute for Environmental Sciences**) in Senegal enhances IDCE programs, expands Clark's presence in Francophone Africa, and opens a regional training opportunity for students and faculty from West Africa. Agreements with local organizations in **Ghana** and in **Somaliland** provide opportunities for faculty and student research in poverty alleviation and conflict mediation. IDCE is also working with the **Inter-American Center for Water Resources** at the Autonomous University of the State of **Mexico** to develop research to assess the impacts of existing practices on watershed resources, the economy, and public health.

Partners in Mexico

In October 2003, Dr. Emanuelle Quentin from Centro Interamericano de Recursos del Agua (CIRA), invited a Clark team of IDCE **Professor Tim Downs**, GISDE faculty member and Idrisi creator **Ron Eastman**, and **James Toledano** (GISDE '99) to participate in the first Inter-American Forum on Hydro-Geoinformatics and explore collaborative research on development, health, water, and environment. As a result, the new Idrisi International Resource Center at CIRA

This collaboration is exciting because it can have a huge impact on science and policy.

was set up as the source node/server for a national network of GIS researchers. Developed at Clark, Idrisi GIS technology is an international leader in spatial analysis and modeling as the first PC-based, noncommercial GIS research platform.

CIRA has degree programs that focus on challenges of water quality and pollution;



Signing the memorandum of understanding between Clark University and the Autonomous University of the State of Mexico (UAEM) were (seated, l-r) Environmental Science and Policy Professor Timothy Downs, Mrs. Kay Bassett, Clark University President John Bassett, UAEM Rector Raphael Lopez-Castañares, and UAEM Research Director Carlos Arriga. This agreement will promote collaborate research and teaching between the two institutions in the environmental sciences, sustainable development, and geography.

water supply; wastewater treatment; and sustainable management of water sources, including the rational use of aquifers, lakes and rivers. In Mexico, CIRA enjoys close relationships with the National Water Commission (CNA), the Ministry of Health (Epidemiology Directorate), and the State of Mexico Health Institute.

CIRA colleagues are committed to working with IDCE and Clark Labs to develop a set of Idrisi GIS-based tools that aid health risk analysis and surveillance and water management in pilot sites. Spurred by this initiative, President John Bassett of Clark and Rector Raphael Lopez-Castañares of UAEM signed a General Agreement for Collaborative Research and Teaching in March 2004. This is expected to yield cooperation in the environmental sciences, sustainable development, geography, chemistry, and even linguistics.

“This collaboration is exciting because it can have a huge impact on science and policy,” says Professor Downs. “We are working with

colleagues from Mexico to develop GIS-based analytical tools incorporating epidemiology, risk assessment, and vulnerability science that tackle public health priorities and watershed stewardship, applicable anywhere in the world. These models will estimate what happens to water quantity and quality with changes in land use and other impacts on health, environment, and economy.”

“The industries in this area of Mexico are ‘very thirsty,’ such as food processing, beverage plants and pharmaceuticals,” adds Downs, “and they are overexploiting the groundwater, and excessively polluting air, soil and water because there is very weak sanitation infrastructure and no enforcement of laws. Stakeholders – including industry – need to be made part of a participatory process that reveals the implications of what they are doing. The GIS-based analytical tools will help us assess ecological, economic, and social impacts of existing practices and policies and to evaluate alternative development pathways that are more sustainable.”



IDCE Director William Fisher (left) met with representatives of the Government of Mali, African Development Bank, and Cultural Survival to discuss the proposed Talo Dam.

Partners in Mali

As the head of a study commissioned by Cultural Survival (Cambridge, MA) on the proposed construction of the Talo Dam in Mali, IDCE Director William Fisher has worked with such local partners as Institut de Recherche pour le Developpement, Djenne Migrants Association, and Djenné Patrimoine. For more than a decade, Fisher has done extensive research on the impact of large dams on downstream communities, particularly on the Narmada Dam in India. He has focused on the ability of local groups to unite and influence the actions of governments and international organizations.

At the request of Cultural Survival, Fisher and his research team of IDCE graduate students Ryan Russell (ID/MA '02) and Lisa Meirotto (ID/MA '03) reviewed the environmental and social impacts of the Talo Dam, part of the plans of the Mali government to develop the plains of the Lower Bani River. They documented the potential negative downstream impacts of the dam and presented their findings to the African Development Bank (AfDB), the major funding source of project. The Clark report was a

compelling red flag and became the catalyst for a construction moratorium by the AfDB, spurred by Dr. Elie Dote, West and Central Africa regional director for agriculture. In a courageous move, the bank decided to delay the project, after the groundbreaking had been already approved, recognizing that more research needed to be done—an unprecedented position in Mali.

The result has been an openness to true civil society engagement in this multi-lateral bank and government-led project.

In the last three years, in light of the Clark report, the AfDB has forced the Government of Mali to weigh dissenting views. The result has been an openness to true civil society engagement in this multi-lateral bank and government-led project, as well as the recognition that quality studies must be conducted to fully assess the positive and negative impacts of any water management solution.

In early 2004 William Fisher, Larry Childs of Cultural Survival, and members of the AfDB met with the Malian Ministry of Agriculture, Livestock and Fisheries to discuss technical and process concerns about the Talo Dam Project. As the result of the meeting, there was improved understanding about the technical concerns, plus increased willingness to listen to local groups who oppose the project. The AfDB and the government officials are open to implementing Cultural Survival's recommendations to include downstream impact studies to inform the project. They also agree to appoint a mediator to report directly to the prime minister of Mali on the project's progress.

Engaging civil society in large-scale infrastructure projects directed by the government is rare in Mali. However, the imposed delay in constructing the Talo Dam has resulted in increased input by concerned organizations and an improved project planning process and design. Professor Fisher and IDCE students continue their involvement with researching the impacts of the proposed Talo Dam, as well as other water management projects around the downstream community of Djenne.

Partners in Kenya

The long-standing partnership with Egerton University in Kenya began when IDCE research faculty Barbara Thomas-Slayter and Dick Ford worked with Kenyan colleagues to create the Participatory Rural Appraisal (PRA) approach to development. The collaboration resulted in co-publication of the "PRA Handbook." In 1989, Professors Thomas-Slayter and Ford joined Dr. Francis Lelo to offer the first jointly sponsored PRA training course at Egerton University. Policy Analysis for Participatory Poverty Alleviation (PAPPA), which combines tools for participation and economic analysis, grew out of the original methods. PAPPA training courses are currently being offered each fall at Egerton.

Mike Marshall (ES&P/MA '03) received a Fulbright Fellowship to work with University

of Nairobi in the Lake Victoria Region to help assess the potential impacts of climate change on malaria and cholera. This is part of a partnership for IDCE student research opportunities initiated by Professor Downs in June 2002. Downs and a group of East African researchers from the Lake Victoria region received a grant for research on “Climate Change Impacts on Malaria and Cholera Risk for Marginalized Communities of the Lake Victoria Region, East Africa.” Their research is funded by Assessments of Impacts and Adaptation to Climate Change (AIACC), a United Nations joint program between the United Nations Environment Programme (UNEP) and the Third World Academy of Science.

Partners in Senegal

IDCE recently initiated a collaborative project with the Institute for Environmental Studies (ISE) at Cheikh Anta Diop University in Senegal funded by the Fulbright Educational Partnerships Program. With complementary programs and a similar interdisciplinary approach, the two universities will develop short courses and trainings for practitioners from Senegal, as well as internship and research opportunities for IDCE students and faculty.

The creation of a master’s degree at ISE is in response to the new Senegalese decentralization policy to transfer control of natural resource management, education, and land tenure from the central government to local communities. Rural community organiza-

IDCE’s U.S. Fulbright Educational Partnership in Senegal has three goals:

- to design a new applied MA degree and program of short courses
- to adapt and expand the effectiveness of existing field tools
- to enrich the curriculum at both institutions, IDCE and ISE.



IDCE works with local organizations in Ghana, such as GOVA, to train villagers to use self-managed community-based tools, such as this village sketch map.

tions, such as farmers’ associations and women’s groups, are called upon to create participatory strategies and community plans of action, but find themselves without the necessary training. Development practitioners in the new ISE master’s program will use innovative methods to build community involvement and leadership and to improve local governance, poverty alleviation, and mitigation of agricultural land degradation.

The Senegal partnership is also an important source of internships for IDCE graduate students, such as **Laura Miller ID/MA ’05**, who served in the Peace Corps in the Ivory Coast. She will work on a paid summer internship as a member of the IDCE/ISE team in a field trial of a PAPP training in Senegal. After the field trial, Miller and her Senegalese counterparts will monitor the impact of the Community Action Plan and provide support for NGOs, community organizations, and government officials in the community.

Partners in Ghana

During the last three years, the Compton Foundation has awarded Compton Environment and Sustainable Development Fellowships to staff members of IDCE partners, including Institute of International Cooperation for Development (ICD) in Somaliland, **Ghana Organization for Volunteer Assistance (GOVA)** in Ghana, and Egerton University in Kenya. Current Compton Fellows from Ghana are **Mary Ofori**, **Ilona Kodjo-Wayo**, **Sulley Sumani**, and **Saeed Abubakari**.

Since 2000 four PAPP training courses in Ghana have been headed by local practitioners and IDCE faculty and students. IDCE interns included Kai Chi Leung, Fatima Tannagda, Scott Pavolko, Bill Bradley, Masafumi Nakanishi, and Leah Penniman. The field courses took place in villages in southern Ghana through GOVA, and in northern Ghana with **Partners in Rural Empowerment and Development (PARED)**, **University of Development Studies (UDS)**,



Somali women trained by IDCE partners teach conflict mediation techniques to other women in Somaliland.

and Oxfam. This training of villagers, government officials, extension staff, and some NGOs supports Ghana's decentralization program by providing tools to implement mandated planning and decision making on the local level. IDCE's recently published handbook, *Villagers Building Community* (2004), is based on field exercises in northern Ghana with PARED.

IDCE continues to cultivate partnerships worldwide, not only to broaden student and faculty experiences but also to become more effective agents of social change.

A Fulbright Scholar Exchange will bring a Ghanaian Ph.D. in geography, Francis Bacho, to IDCE from the Faculty of Integrated Development Studies at the University of Development Studies (UDS).

Partners in Somaliland

IDCE has also sponsored joint programs on community-based planning, conflict mediation, and women's peace building with the **Institute of International Cooperation for Development**, based in Hargeisa, Somaliland. Funded by a grant from the Greenville Foundation, Professor Ford, ICD staff member **Shukri Abdillahi ID/MA '04**, and **Laura Burnham ID/MA '03** conducted gender and conflict mediation trainings in central Somaliland.

Torn asunder by civil war from 1980 to 1991, Somaliland exists today as an unrecognized democracy. With 33 warlords and nine major clans, the fighting continues in Somalia, located to the south and east of Somaliland.

"We trained teams of women to go to villages, such as Dararweyne, to train other Somali women to do peace building. Our new *Peace and Milk Handbook* was based on our collaboration with ICD to organize village women to be active in peace mediation," says Professor Ford. The Greenville Foundation grant funded IDCE's upcoming publication, *Women in Peace Building*.

IDCE graduate student Shukri Abdillah was also awarded a Compton Fellowship to continue research on women's roles in conflict resolution under the Greenville grant. After graduation from IDCE, Laura Burnham returned to Hargeisa, Somaliland, to work in peace building, this time with another Clark partner, **The Somaliland Academy for Peace and Development**.

"IDCE continues to cultivate partnerships worldwide, not only to broaden student and faculty experiences but also to become more effective agents of social change," says IDCE Director William Fisher.

Local Partnerships: Putting Theory into Action in the Neighborhood

Local environmental and community groups often invite IDCE to undertake key community building projects, as well as data gathering and analysis, allowing IDCE faculty and students to put theory into practice right in the neighborhood. By helping to facilitate participatory sessions and building collaborations, students see Worcester neighbors taking action, setting priorities, and maximizing their human capital and governmental resources. Students hone their analytical skills through GIS mapping of land parcels for development or preservation and through monitoring water quality. IDCE is involved with the greater Worcester community in a number of partnerships.

Local partners include the **Worcester City Government**, environmental agencies, community development corporations, and neighborhood groups. IDCE students and faculty research and make recommendations on issues ranging from education reform to hazardous waste reduction. For example, students in the program in Geographic Information Sciences for Development and Environment (GISDE) work with the city on brownfields reuse and water quality. Students in the Program in Environmental Science and Policy (ES&P) explore open space preservation and pollution reduction. **The Worcester Education Partnership**, funded by an \$8-million Carnegie Foundation grant, affords Community Development and Planning (CDP) students opportunities to research how high school students experience secondary school transformation. In addition, an emerging partnership with **YOU, Inc.**, will train practitioners in child welfare in Kenya and Worcester in project management—from project development to monitoring and evaluation.

City of Worcester Office of the Mayor

Clark has a long history as an active partner in economic and community development in Worcester. The Mayor's Office and GIS Department regularly contact GISDE with requests for student assistance, according to

GISDE Program Coordinator Gil Pontius. "The City realizes that Clark and GISDE are a good resource for GIS assistance," he says. "Our students can get involved in GIS in an experience that gives them important real applications that occur here in our city."

Brownfields Research: For several years Worcester Mayor Timothy P. Murray has solicited Clark's assistance in doing GIS analysis of the location of Worcester's brownfields, particularly relative to their proximity to schools and water sources. The findings of graduate and undergraduate students, particularly HERO scholar Hua Wang, were featured in the 2003 Brownfields Summit, which the mayor held on campus.

In 2004, Mayor Murray invited two GIS interns to work on maps of brownfields for redevelopment. These maps would help developers identify contiguous vacant properties or brownfields that meet their square-footage needs. New businesses could view the maps to figure what vacant properties might be combined; currently only lists of vacant parcels exist with no information about their relation to each other. "The search for abandoned contiguous properties

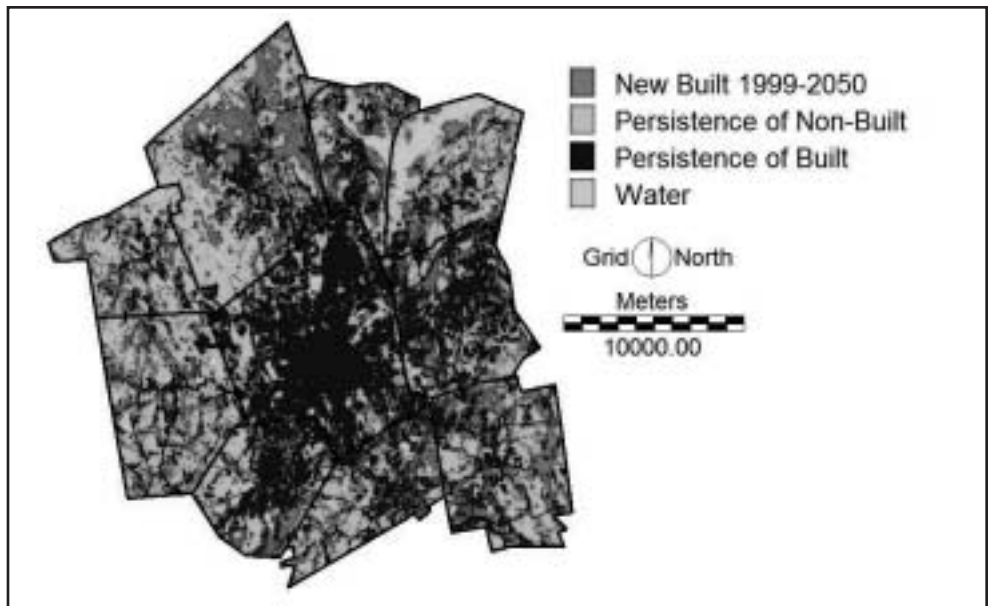
that could add up for future development is clearly an important GIS application," says Pontius.

Cities for Climate Protection

On the recommendation of ES&P Professor Halina Brown and graduate student **Carissa Williams** (ES&P BA/MA '04), Mayor Murray has added Worcester to the Cities for Climate Protection Campaign (CCP) to begin reducing local global warming emissions. Williams and ES&P undergraduate major **Hannah Muller** created an inventory of all major sources of greenhouse gas emissions in Worcester. (see story, page 31)

Executive Office of Economic Development

Revitalization of downtown Worcester is a priority for Director of Economic Development George Ciccone. To identify current best practices, CDP students **Lara Bold** and **Mike Colan** (CDP/MA '05) are working with the Executive Office of Economic Development and writing case studies of exemplary downtown revitalization efforts in other cities. "The students are examining the whole range of enabling legis-



GISDE students prepared this GIS map to predict additional built areas through 2050 in Worcester and nine surrounding towns.

lation, including zoning, and are investigating effective urban revitalization tools,” says CDP Program Coordinator Laurie Ross. “They also will explore the impact of existing policies, such as the effect of tax incremental financing (TIFs).” When their report is completed, the students will present their recommendations to the Executive Office of Economic Development.

Worcester Housing Authority

As a result of a direct request from Housing Authority Director Ray Mariano, CDP students **Angel Riepe** and **Colleen Adams** worked as interns with the Housing Authority under the supervision of Deputy Directory Michael Murphy. To comply with HUD funding regulations, the Authority needed to have a comprehensive understanding of the numbers and needs of disabled residents in Worcester. Using census data, other housing studies, tenant interviews, and interviews and focus groups with service providers, the students compiled their findings into a report with recommendations and presented it to the Housing Authority. Given the difficulty of acquiring this information, other groups, including the Massachusetts Department of Mental Retardation, have requested copies of this report.

“The students’ help was invaluable—the data they collected we couldn’t get from any other sources, and our office could not devote the amount of time required to get this important, practical data. The students put in the necessary time and energy to deliver a great final product. We have used their report, forwarded it to HUD, and shared it with other City agencies, so their work is far reaching. The Housing Authority’s partnership with Clark was wonderful. This is the second time the Housing Authority has been involved with Professor Ross’s CDP students, and I hope the partnership will continue. The students’ attitude and willingness to provide quality work were excellent,” says Deputy Director Michael Murphy.



Students Jennifer Smith and Angel Riepe worked with CDP Program Coordinator Laurie Ross (center) on the local evaluation of Worcester high schools’ transformation from large to small learning communities.

Worcester Education Partnership

In response to growing disparity between academic outcomes in urban and suburban school districts, and a recognition that many graduates from city high schools are not prepared for 21st-century careers, urban high school transformation is happening across the nation. An emerging trend in transformation efforts is a shift from large comprehensive high schools to small learning communities. Worcester is deeply involved in this transformation process as one of seven urban school districts that have been chosen to participate in the Carnegie Corporation of New York’s “Schools for a New Society” initiative.

IDCE is directly connected with the five-year \$8-million Carnegie Grant awarded to Clark’s Hiatt Center for Urban Education. CDP Program Coordinator Laurie Ross directs the local evaluation of the grant, which focuses on how students experience the transformation from large to small learning communities.

“This is the third year of the grant,” says Ross, “and each year I involve students in the evaluation.” For example, IDCE grad students **Angel Riepe** and **Jennifer Smith** are paid research assistants through the Carnegie Grant and have the opportunity to work on cutting-edge school reform projects. Jen Smith in Fall 2003 assisted with the presentation of results from Year I to the district leadership team including the superintendent and other school administrators. These presentations help the District reflect on successes and identify areas that remain as challenges to fully implementing the vision of small learning communities.

The WEP Partnership and Carnegie grant provide CDP students with invaluable hands-on experience. “All eight Worcester high schools have CDP students involved in some form of evaluation,” adds Ross. “This year my CDP Field Research class created focus groups protocols and recruited student researchers in the high schools. They helped the teens create action research projects; one group decided to make a video of their small

school experience within the larger high school. The connection and involvement of my Clark students has helped recruit high school students and give them voice in the high school transformation process.”

Worcester Common Ground

Worcester Common Ground Community Development Corporation requested the students in the Spring 2004 CDP Practicum to assist with a Neighborhood Planning Process for the Piedmont neighborhood. The CDC hopes to expand economic development efforts and affordable housing, especially for first-time homebuyers in the Piedmont com-



CDP students Brandy Finley and Erin Ellison conduct a community mapping exercise in the Piedmont neighborhood.

munity, a densely populated low-income area with only 12 percent home ownership. Overall, the CDC wants to be more responsive to neighborhood needs and concerns. To do this, Worcester Common Ground recognized it needed to get in touch with residents

and resident priorities and invited IDCE to participate.

“A big part of community building is listening. For this neighborhood planning process, our students will make use of participatory tools and GIS,” notes Ross.

The CDP students work in three groups:

- *Social Capital Group* will use participatory tools to bring neighbors together to capture knowledge and strengthen social ties in the neighborhood.
- *Economic Development Work Group* will survey businesses and residents to identify an economic development vision, using GIS to map areas suitable for commercial development. Residents, the CDC, and the city will use this data to make economic development decisions.
- *Environment Work Group* will hold a series “Community Cafes,” to understand the residents’ perceptions of environmental problems in the neighborhood. In this way, Worcester Common Ground will have needed information to mobilize residents to address pressing environmental quality of life issues in the neighborhood.

YOU Inc.

YOU Inc. Director Moe Boisvert and Clara Githaka, a family stabilization specialist from Kenya, have also turned to Clark and

IDCE to explore a partnership. Githaka worked with **Katie Scott (ID/MA ’03)**, who is in Africa on a David Boren Scholarship to pursue water quality research. In September 2003 they did a child welfare needs assessment in Nairobi. After interviewing NGOs,

government officials, and street children to determine needs of families, they found that no official child welfare system exists in Kenya. YOU Inc. is exploring a possible partnership with Clark to create an International Institute for Child Welfare, which could offer practitioners from Kenya and Worcester IDCE courses in project development, management, monitoring and evaluation.

Beyond Worcester Marine Biology Laboratory Woods Hole

The GISDE Program has a close partnership with the Marine Biology Lab (MBL) in Woods Hole, MA. Students and faculty collaborate on research on the Ipswich River Watershed, the third most toxic in the U.S.

“We do the GIS research there, and MBL does the water quality research. The National Science Foundation has designated the Ipswich as a Long-term Ecology Research Site. Every year we have many GISDE students who use data from the Ipswich for their master’s topics,” says Professor Pontius.

City of Lewiston, Maine

The Somali refugee community in Lewiston, Maine, had difficulty assimilating into the city, so the City Manager Phil Nadeau invited IDCE Professors Dick Ford and Laura Hammond and their students to help.

Professor Ford observes, “The conflict mediation and community building that we undertook in Lewiston, ME is a direct outgrowth of our work in Somaliland. The Somalis in Lewiston come from all different clans and bring animosities and baggage from the civil war there. The first step in community building is conflict mediation; then community building can follow. The mediation skills that we honed in Somaliland were used in Maine.”

Better understanding and communications between the Somali community and city government are being built based on these efforts. (see page 10)

A conflict-mediation and community-building process developed at Clark and used worldwide helps ease intercultural tensions in Lewiston, Maine

PRA Comes Home

By Tammy Griffin-Kumpey

While working in Kenya some 20 years ago, research professors Dick Ford and Barbara Thomas-Slayter developed a methodology that links conflict mediation and peace building with community-based development and action. Since its inception, the process known as Participatory Rural Appraisal (PRA) has been used successfully to resolve conflict and build stable, thriving communities in developing countries worldwide. This past fall, Ford and Professor Laura Hammond, both of whom have worked in Somalia, tested the methodology closer to home.

During the fall 2003 semester, Ford and Hammond offered Clark graduate students from the International Development, Community, and Environment (IDCE) Department a course on PRA. They worked on a community-building process to help the city of Lewiston, Maine, and a group of resident Somali immigrants bridge a gap and ease intensifying intercultural tensions. It's the first time that Clark has used PRA in a U.S. peace-building context.

Misunderstandings fuel tensions

According to Ford, approximately 2,000 Somali immigrants moved to Lewiston between 2001 and 2003. They were "secondary migrants," coming not from Somalia directly but from other U.S. cities, particularly from areas around Atlanta. Somalis came to Lewiston because housing was affordable, there were plenty of jobs, and it was safe—unlike some of the cities in which they had been settled by the U.S. government. But as jobs in Lewiston disappeared with the failing economy and more people in the community were in need of once-abundant affordable housing and social services,

some longtime Lewiston residents became angry and resentful. They blamed the Somali immigrants for the city's economic woes and scarce resources. Language barriers, coupled with cultural misunderstandings and myths, drove the wedge further between the longtime residents and Somali immigrants.

"There was tension," says Shukri Abdillahi, an IDCE graduate student from Somaliland. Fueled by the media, Abdillahi says, the tension grew. In May 2002, the mayor of Lewiston published a letter in the local newspaper asking Somalis to discourage their friends and relatives from moving to Lewiston. The letter provoked outrage among the Somali community. In January 2003, a white supremacist group called Church of the Creator descended, uninvited, upon Lewiston, spewing rhetoric of hatred and threats of violence against the Somali refugees. The mayor's letter, which many agree was not meant to have the response that it did, and the Church of the Creator's visit was a wake-up call to the Lewiston townspeople, Abdillahi says. Ford adds that the Lewiston community reacted quickly, holding a "Many and One" rally to counter the demonstration by the supremacist group. Some 5,000 people from Lewiston and other parts of Maine came to the rally in support of their Somali neighbors.

Building consensus and unity

"The Lewiston community was struggling," says Ford. "But they were not in crisis; there was no major violence."

However, the community wanted to address the problem before it became a crisis. Abdillahi and Hammond visited Lewiston and initiated a collaboration between Clark's IDCE program, the city of Lewiston and the

Somali community. Lewiston's Assistant Administrator Phil Nadeau and Immigrant and Refugee Programs Manager Victoria Scott, and Somali Community Services Executive Director Abdirizak Mahboub enthusiastically supported the project and helped the Clark team contact other community organizations. Ford developed a course around a hands-on community-building experience that partnered each student with a Somali family. Abdillahi was one of 15 IDCE graduate students to take the course.

The group focused on one Somali housing unit in the city, which consisted of about 90 families, approximately 60 percent of whom are Somali. The graduate students lived with their assigned families over the course of three weekends. They worked with Ford and Hammond to facilitate a process to help the community see itself in a new light and create consensus and unity. The students brought the Somali people together in open meetings where they created charts, diagrams, maps and other visual representations of their community. Most of the discussions were conducted in the Somali language.

According to Ford, conflict mediation requires digging deeply into the spatial, historical and socio-institutional experience of a community and developing a profile of the problem and its causes. By drawing and presenting these visual maps, the community can begin discussions about their needs. It helps community members understand the nature of their problems and work together to implement solutions. Ford says the process helped the Somalis establish common ground, values and goals that could be endorsed by all members of their community.

Mobilizing to change

Graduate student Stephanie Daniels says it was a challenge to be so involved without making or guiding all the decisions. “We asked them questions to facilitate the process and refrained from making suggestions so they could come to conclusions themselves,” she says, explaining that this method prompts discussions that may not happen otherwise and empowers the Somalis to make choices that are right for them.

“The Somali community is very strong,” says Daniels. “And they are beginning to understand each other better and are working toward a resolution.”

“This project mobilizes people,” says Abdillahi. “People see the need for change, and they build partnerships. When they see that they have ownership, they can make their own change. It took a while to build trust—we only had a few weekends, but it’s a beginning. They’ve started a positive process.”

“A good beginning”

“They’re off to a good beginning,” Ford agrees, explaining that the Somalis have defined their own high needs, which include unified leadership, strong community organizations, jobs, education, health and transportation. “Refugees are not hopeless people.” Ford likens their experience here to “traveling through Europe without an American Express card.” He adds that many of the refugees are highly educated and once held professional positions in Somalia, but the credentials to prove it have been lost in the ashes of their war-torn nation. The exercises used by the Clark group will help the Somalis adjust and move forward to rebuild their lives.

“They found that their main priorities are to organize themselves as a community with a recognized leadership, and to strengthen their communities so they can help themselves rather than look to others for help,” says Hammond. Once the Somalis organize, she says, they can begin to work successfully with other organizations in Lewiston and the surrounding area. Although some of the students will continue to work with the Somalis in Lewiston, Hammond says, the ultimate goal is to train the Somalis so they can con-



Photo by Dan Vaillancourt

IDCE students with Professors Laura Hammond and Dick Ford worked with the Somali community in Lewiston, ME, to develop a Community Action Plan.

duct these workshops themselves and continue their forward momentum.

Mahboub plans to do just that. He hopes the Somali community will use PRA for future initiatives aimed at strengthening the Somali community and improving its relationship with the town.

“Using PRA techniques helped the community to sort out for itself what its priorities and needs are, rather than relying on help from outside,” Mahboub says. “IDCE helped to give power to the community to bring other non-Somali partners into the process and engage with us on our own terms.”

Mahboub adds that the community plans to hold a stakeholders’ meeting to present their results of the process to organizations working with the Somalis and to keep the process going. “We have high aspirations for the future,” he says.

The preliminary report from the workshop has been praised by city officials. In a recent press release, Nadeau said “the benefits of

such a needs assessment will most certainly be shared by other immigrant and non-immigrant residents, both English and limited English speaking, who live in the city.”

A model for U.S. communities

The success of Clark’s work in Lewiston may serve as a model for other U.S. communities that may benefit from PRA. Ford says that the city of Portland, Maine, has already inquired about Clark doing similar work in its community, which could lead to more learning opportunities for students. He also says some of the graduate students who participated this fall plan to develop research theses based on their experience.

“It was a privilege to be part of this,” says Daniels, who especially enjoyed interacting with the Somali youth. “They were so articulate and comfortable in their environment. Now, they need to learn to integrate and keep their own culture intact. It’s just so satisfying to be part of such a personal and important planning process.”

Faculty Notes

Kiran Asher presented the paper, “Biodiversity in the Pacific Lowlands of Colombia: Gene Bank or Cultural Property?” at the annual meeting of the American Anthropological Association. She also participated in the invited workshop, “Deforestation and African Oil Palm,” at the Chicagoans for a Peaceful Colombia Conference on “Natural Resource Exploitation and the Survival of Afro-Colombians.” Asher was interviewed on KPFA (Pacifica) Radio’s Living Room about the linkage between theory—specifically Marxist social theory—and activism for social change.

Halina Brown was an invited international scholar to serve as an official opponent in a doctoral dissertation defense at Lund University, Lund, Sweden. The title of her presentation was “Multistakeholder Networks in Sustainable Tourism.” At the annual meeting of the Greening of Industry Network in San Francisco, Brown gave a talk, “Bounded Socio-technical Experiments in Individual Mobility,” based on the M.A. thesis work of ES&P student **Cassie Buckley**.

Timothy Downs in March 2004 traveled with Clark President John Bassett and Professor John Rogan to Mexico to attend the signing of the agreement for collaborative research and teaching with the Autonomous University of the State of Mexico. Downs presented a paper,

“Confluent Themes That Offer Opportunities for Collaborative Research,” at the *First Inter-American Symposium on Hydroinformatics*, University of the State of Mexico, Toluca, Mexico in October 2003. His other conference presentations included “Sustainable Watershed Management: Lessons, Challenges, Principles and Practices,” at the Stockholm Environment Institute in Sweden and at the Dow Chemical Company in Houston, Texas. Downs made five contributions to the new *Encyclopedia of Water*, including: sampling and monitoring of contaminants; regional water supply; municipal watersheds; theory and practice of sustainable water; and capacity building needs for the water sector. Downs also advises the International Water Association (IWA) on sustainability challenges and responses for the water and sanitation sector.

Cynthia Enloe published “Creeping Militarization” in the *International Feminist Journal of Politics* and “Making the Perpetrators Visible: Reading Human Rights Reports,” in the *Women’s Review of Books*, 2004. She has recently completed two books—on the new age of feminism and on the role of feminist inquiry to uncover the realities of international politics.

William F. Fisher discussed the World Social Forum in India and his book, *Another World Is Possible*, co-authored with Thomas Ponniah (Zed Books, 2003) in 15 radio

interviews broadcast around the nation from December 2003 through March 2004. The book, recently published in French and Japanese, discusses popular alternatives to globalization presented at the 2002 World Social Forum. Fisher attended the World Social Forum in January 2004 in Mumbai, India, with Ponniah and several International Development students. Fisher also attended the African Development Bank-sponsored meetings in Mali with the Malian Ministry of Agriculture, Livestock and Fisheries and Larry Childs of Cultural Survival. The meetings discussed technical and process concerns about the proposed Talo Dam; Fisher is lead author of the report sponsored by Cultural Survival on the potential downstream impacts of the dam.

Richard Ford published with Hussein M. Adam and Edna Adan Ismail (Clark honorary degree recipient) (eds.) *War Destroys, Peace Nurtures: Somali Reconciliation and Development*, The Red Sea Press, Lawrenceville, New Jersey. With Barbara Thomas-Slayter, he published “Village-Based Development: Reflections for Africa’s 21st Century,” in *The Future of Africa: Essays in Honor of David A. Morse*, David C. and John S. Major, The New York Society for International Affairs, 2003. Ford also published with **Saeed Bancie Abubakari (ID/MA ’04)** and Moses Tampuri the handbook, *Villagers Building Communities: How Za’ari Used PAPP Self-Managed Community-Based Tools to Strengthen Infrastructure*, IDCE, GOVA, and Oxfam/Ghana, 2003.

Ford is presently working with the Institute of Environmental Studies, Cheikh Anta Diop University, Dakar, Senegal on a three-year research program, funded by the Fulbright Program, that will develop an M.A. degree in Participatory Natural Resources Management. With Oxfam/Ghana, Ford conducted a training workshop and carried out a community assessment, based on his

Gil Pontius Granted Tenure

R. Gil Pontius was awarded tenure and promoted to Associate Professor, effective September 1, 2004, by the Clark University Board of Trustees. Pontius joined the Clark faculty in 1998 as a joint appointment in IDCE and Geography. As the



coordinator of the GISDE Program, Professor Pontius was recently awarded both the Hodgkins Prize and the Oliver & Dorothy Hayden Junior Faculty Fellowship for excellence in scholarship, teaching and service.

previous field work with the University of Development Studies, Oxfam/Ghana, and the Ghana Organization for Volunteer Assistance in East Mamprusi, Ghana. At that time he completed an assessment of the Za'ari village and trained staff of a new NGO (Partners for Rural Empowerment and Development - PARED). In the Philippines, Ford worked with the Unitarian-Universalist Church of the Philippines (UUCP) to introduce tools of community-based development. He conducted a pilot field assessment in the village of Nagbinlod on Negros Island and prepared a draft case study for use by the community, the local municipality, and the UUCP. Ford's work in Somaliland with International Cooperation for Development and women from Dararweyne village resulted in a field guide for women's roles in building peace. He conducted with IDCE colleagues a needs assessment for the Somali refugee community living in Lewiston, Maine, as part of a project to examine use of community-based tools to ease conflicts and develop action plans for refugee communities in urban North America. In addition, Ford was appointed Special Advisor for Africa for Aid to Artisans.

Rob Goble and Dale Hattis were recently awarded a grant of \$396,456 from the Department of Energy to develop bio-mechanistic models that focus on the activities and feedback controls of cellular repair mechanisms for damage to genetic material and other mechanisms for the defense of genomic integrity. Recent publications include "A Critical Review of ATSDR Public Health Assessment for Lawrence Livermore National Laboratory," a final report with **Abel Russ (ES&P '99)** to Tri-Valley Communities against a Radioactive Environment under a grant from the Citizens' Monitoring and Technical Assessment Fund. Goble also published with D.Hattis, A. Russ, et al: "Differences in Pharmacokinetics between Children and Adults-II," in *Risk Analysis* 23 (1): 117-142.

Laura Hammond published a chapter, "How Will the Children Come Home?: Emplacement and the Creation of the Social Body in the Ethiopian Returnee Settlement," in *Children's Places: Cross-Cultural Perspectives*, edited by K. Olwig and E. Gullov, December 2003, Routledge Press, London. She also published "The Making of a Good Citizen in an Ethiopian Returnee Settlement," in *Coming Home? Refugees, Migrants, and Those Who Stayed Behind*," edited by Lynellyn D. Long and Ellen Oxfeld, December 2003, University of Pennsylvania Press, Philadelphia. She currently serves as program chair for the International Association for the Study of Forced Migration's Biennial Conference, to be held in Sao Paulo, Brazil in January 2005. With Professor Richard Ford and Abdirizack Mahboub of Somali Community Services in Lewiston, Maine, Hammond co-authored "Somali Families in Hillview: Assessing Needs, Setting Priorities, Building Consensus." This report is being disseminated widely in Lewiston and is the product of a collaborative community-based needs assessment carried out with help from IDCE graduate students at the Hillview Residential Area in Lewiston.

R. Gil Pontius delivered numerous invited presentations including: "Validation of Land-Use Change Models at Multiple Resolutions" at the Framing Land Use Dynamics Conference in Utrecht, The Netherlands; "Uncertainty in Extrapolations of Predictive Land Change Models" at the Human Dimensions of Global Environmental Change meeting in Montreal, Canada; and "Analyzing and Modeling Land Use and Land Cover Change at Multiple Resolutions" at the Universidade Nova de Lisboa, Lisbon, Portugal. He has given presentations on "Map Comparison Methods That Give Useful Information," at the University of Buffalo; "Will We Learn Anything from Complex Land Change Models?" at Indiana University; and "The Usefulness and

Uselessness of Land Change Models in Massachusetts" at University of Massachusetts/Boston.

Pontius also co-authored the following peer-reviewed scientific papers with GISDE students, now alums:

- R.G. Pontius Jr, **Emily Shusas (ES&P/MA '03)**, and M.McEachern. 2004 "Detecting Important Categorical Land Changes while Accounting for Persistence," in *Ecosystems & Environment* 101 (2-3) p.251-268.
- R.G. Pontius Jr. and **Kiran Batchu (GISDE/MA '02)**. 2003. "Using the Relative Operating Characteristic to Quantify Certainty in Prediction of Location of Land-cover Change in India." *Transactions in GIS* 7(4) p. 467-484.
- R.G. Pontius Jr., **Aditya Agrawal (GISDE '02)**, D. Huffaker. 2003. "Estimating the Uncertainty of Land-Cover Extrapolations while Constructing a Raster Map from Tabular Data." *Journal of Geographical Systems* 5(3) p. 253-273.

Pontius' other publications included two conference proceedings: "Methods to Compare the Accuracy of Different Types of Land Use Change Models" for the Framing Land Use Dynamics Conference in Utrecht, The Netherlands, written with J Malanson; and "Sado Estuary Management Areas: Hard Versus Soft Classification Maps Comparison," written with S. Caeiro, S. Sousa, and M. Painho for the Coastal GIS 2003 Symposium, Genova, Italy.

Samuel Ratick received a three-year National Science Foundation grant of \$190,000 (with Geography Professor Yuko Aoyama) to research "Organizational Dynamics of the U.S. Logistics Industry: The Impacts of Inter-firm Relations, Technologies, and Globalization." Ratick also was an invited participant to the International Research Symposium on Industrial Symbiosis at Yale University. The symposium was to create a long-term vision for the field and set the agenda for future

industrial symbiosis research, in which a number of industries make use of each other's production residues or by-products for commercial and environmental reasons. At the North American Regional Science Association meeting in Philadelphia, Ratick chaired two sessions on location modeling. At this meeting, two papers that Ratick co-authored were presented: *Finding Data Envelopment Analysis (DEA) Efficient Location Patterns* with Ronald Klimberg of the Business School of St. Joseph's University; and *A Dynamic Multi-Objective Location/Allocation Model for E-commerce and the Logistics Industry* with Guido Schwarz and Yuko Aoyama.

John Rogan received the ESRI-UCGIS Young Scholars Award 2004 at the University Consortium for Geographic Information Science winter meeting. His work was recognized as the 2004 LEICA Geosystems Best Scientific Paper in Remote Sensing by the Association of Photogrammetry and Remote Sensing. Rogan published with D.M.Chen, 2004, "Remote Sensing Technology for Mapping and Monitoring Land Cover and Land Use Change," *Progress in Planning*, 61 (4), 301-325, 2004. He also published with P. Treitz the article, "Remote Sensing for Mapping and Monitoring Land Cover and Land Use Change: An Introduction," *Progress in Planning*, 61 (4) 269-279, 2004.

Laurie Ross is lead researcher for the Year One Worcester Education Partnership (WEP) Cohort Study, developed with the Carnegie Corporation. She recently presented first-year findings to the Worcester school administration of this three-year study, which examines experiences of high school students in Worcester public schools' Small Learning Communities. Ross also is cochair with John O'Brien, CEO of University of Massachusetts/ Memorial Medical Center, of a United Way of Central Mass initiative, "Building Brighter Futures for Youth." They will create a leadership team of those involved in youth work and will engage community groups to identify the priority youth issues with the goal to create a campaign that will elevate issues of youth development to the public.

Robert J.S. Ross published "From Antisweatshop to Global Justice to Antiwar: How the New New Left is the Same and Different from the Old New Left," 2004, *Journal of World Systems Research* 10:1 287-319. His article, "Racing to the Bottom: International Trade without a Social Clause," written with Anita Chan appeared in *Third World Quarterly*, 24:6. pp 1011-1028. Ross participated in the panels, "The Rise and Fall of Sweatshops in the USA" and "Resistance to Sweatshops," at the Global Studies Association 2004 conference. He appeared on the panel, "Iraq and the U.S.: One Year After," for Flipside Public Access TV, Worcester, MA, broadcast in March 2004. Ross also gave the keynote speech, "Slaves to Fashion," and discussed "Exploited Labor: Social Evil or Economic Necessity?" at the Conference and Teach-in on Sweatshops at Mount Allison University, New Brunswick, Canada. He gave an invited lecture on fashion at the Fraser Center for Workplace Issues, Wayne State University.

Barbara Thomas-Slayter published the book, *Southern Exposure: International Development and the Global South in the Twenty-First Century*, Kumarian Press. Based on 30 years of development work in Kenya, Nepal and Sri Lanka, the book spotlights the causes and conditions of inequalities that are

taking on new meanings in a changing global system. She also published with **Genese Sodikoff (ID/MA '96)** "Sustainable Investments: Women's Contributions to Natural Resource Management Projects in Africa," in *Development Methods and Approaches, Critical Reflections*, D.Eade, ed., Oxford: Oxfam GB, 2003. Thomas-Slayter chaired the Fulbright Selection Committee for the 2004-05 Fulbright Scholars from Africa. She recently gave workshops at Brown University on poverty, participation, and environment for the Watson Institute for International Environmental Scholars.

Mark Tigan completed and presented to the Mayor of Hartford, CT, a reorganization report for the City of Hartford that addressed city departments and nonprofits performing community development functions, with the aim of budget savings and consolidations. He also participated in the recruitment of the new community development director to head the newly consolidated functions. Dutchess County, New York, requested technical assistance from Tigan to set up a micro-enterprise revolving loan fund for the County. The first loans will target the art community of Beacon, NY, the site of a major New York City museum's relocation.

Off the Shelf

At Clark's "Salute to Faculty" in April 2004, the following recent books by IDCE faculty members were highlighted:

- **William F. Fisher and Thomas Ponniah.** *Un Autre Monde Est Possible—Pour Une Autre Mondialisation: Le Forum Social Mondial* (Another World Is Possible: Popular Alternatives to Globalization at the World Social Forum). L'Aventurine, Paris. 2003. Japanese edition. 2003. The English Agency (Japan) Ltd. with Zed Books Ltd.
- **Cynthia Enloe.** *Muzlar, Plajlar ve Askeri Usler* (the Turkish translation of Bananas, Beaches and Bases.) Istanbul, Citlembik Publishers, 2003.

- **Richard Ford with Hussein M. Adam and Edna Adan Ismail, eds.** *War Destroys, Peace Nurtures: Somali Reconciliation and Development.* Somali Studies International Association, The Red Sea Press, Inc. Lawrenceville, New Jersey. 2004.

- **Barbara Thomas-Slayter.** *Southern Exposure: International Development and the Global South in the Twenty-First Century.* Kumarian Press, Bloomfield, CT. 2003.



Student-Faculty Research

In Summer 2003, **Professor Laura Hammond** and graduate student **Bezaiet Dessalegn (ID/MA '04)** traveled to Ethiopia to do an assessment of the Ethiopian Government's Voluntary Resettlement Program. The results of their work are summarized in the chapter for the book edited by Pankhurst and Piguert, as well as a report entitled "Safara: A Preliminary Assessment of Pilot Voluntary Resettlement in Ethiopia." In February, they returned to Ethiopia to develop a Monitoring and Evaluation Framework for the resettlement program. This project, funded by the U.S. Office of Foreign Disaster Assistance, was submitted to a multi-donor, multi-agency task force in Addis Ababa. Future work will involve training of field monitors to implement the system.

Tamirat Mulu (ID/MA '05), Stephen Anderson of the Food Economy Group, and **Professor Hammond** have been contracted to write a Food and Humanitarian Assistance Strategy Concept Paper for USAID Ethiopia.

Jennifer Farley (ES&P/MA '04) with **Professor Tim Downs** and **Professor Laurie Ross** co-wrote an article advocating an integrated, participatory, systems-based approach to tackling environmental justice issues in Worcester.

Professor R. Gil Pontius published with IDCE student **Carissa Williams (ES&P/MA '05)**, M. Holden, and C. Lippitt "Building a Database of Historic Land Cover to Detect Landscape Change," in *Biological Bulletin* 205: p. 257-258. 2003.

ES&P students **Jennifer Ericson**, **Divya Seth**, **Catherine Cox** and **Ann Langlais** are working with **Professor Rob Goble** and Dale Hattis on their recently awarded Department of Energy grant. The project is entitled "Biologically Based Risk Modeling with a Focus on Cellular Repair Mechanisms for Radiation-Induced Damage." The team will develop bio-mechanistic models that focus on the activities and feedback controls of cellular repair mechanisms for damage to genet-

ic material and other mechanisms for the defense of genomic integrity.

Stella Capoccia (ES&P/MA '04) worked with Dale Hattis and Katy Walker on their Department of Public Health/State of Connecticut Project "Evaluating Differences in Pharmacokinetic Handling of Chemicals between Children and Adults." This study looks at toxicology related to genetic differences and age-related differences in metabolism and response to toxins and volatile organic chemicals (VOC's). Capoccia's role was to assist in identifying and building a literature database for the project.

In the Community-Based Hazard Management Program at the Marsh Institute, **Casey Burns (ES&P/MA '04)** is conducting an epidemiological overview with **Octavia Taylor (ID/MA '93)** and **Professor Rob Goble** for their National Institute for Environmental Health and Safety grant, "Nuclear Risk Management for Native Communities."

Professor Ratick and Team Report to EPA on Vulnerability to Mercury

Professor **Samuel Ratick** and a Marsh Institute research team submitted the final technical report commissioned by the Environmental Protection Agency on "Determining the Vulnerability of Populations to Mercury." The team included Professors **Rob Goble** and Dale Hattis, as well as Jasmine Tanguay and IDCE students **Stella Capoccia (ES&P/MA '04)** and **Alexandra Dichter (ES&P/BA/MA '04)**.

This study explored three elements: 1) exposure of populations to mercury emissions, 2) susceptibility of those populations to the potential harm caused by the exposure, and 3) the ability of the exposed and susceptible populations to cope with the harm.

"We created a framework to understand the coping mechanisms and vulnerability of different populations. It was a great team effort—the ES&P students organized the lit-

erature review and helped us design and carry out the research," says Professor Ratick. Prior research determined that high exposure to mercury in humans results primarily from the consumption of large quantities of contaminated fish. Most mercury released in the U.S. comes from combustion, with coal-fueled power plants the largest contributors. Mercury emissions are mainly deposited in the U.S. in patterns similar to the deposition of acid rain, with high concentrations in the waters of Northeast, North Central, and Southeast United States.

The Marsh report found the ability to cope with mercury exposure depends on the ability to avoid exposure, to moderate the susceptibility, and to deal with the consequences of exposure. The researchers found that the inability to withstand or recover from harms

of mercury exposure can be closely tied to the substandard income levels, nutrition, employment, access to health care, and availability of insurance. In addition, current EPA fishing bans for water bodies with fish with high mercury levels disproportionately affect populations, such as immigrants or Native Americans, who rely heavily on local fishing in their diets.

"We used a hazards causal chain analysis that describes how you can intercede at each step in the chain to enact different policies," observes Ratick. "Generally policy interventions farther up the causal chain tend to have more widespread and equitable benefits and burdens. The EPA may use our study to help develop policies to control mercury emissions at power plants, for example by requiring the use of lower mercury content fuels."

Halina Brown: Integrating Science and Society

“That first chemical reaction turned chaos into order. Things made immediate sense—the purity of the scientific explanations spoke to me.” The girl in the sixth grade had felt isolated in post-war Warsaw, where her entire extended family had been wiped out in the Holocaust. But now she had found a haven in science. From then on, the young Halina Brown blossomed under the Soviet system that encouraged women to freely pursue any scientific interest.

That is, until she was a chemistry major at the Warsaw Institute of Technology when anti-Semitic sanctions forced her to flee Poland to the United States. Sponsored by the local Jewish Social Services, Brown arrived in St. Louis, Missouri, at age 20 with no money and no relatives.

“It could have been Mars,” she remembers. “I knew no one and had very little English. But what I brought to this country was more important than anything—a very good education, self-reliance, and no perception of barriers.”

With persistence and hard work, Brown gained the scholarships needed to obtain a bachelor’s degree in chemistry from Washington University. She then headed to New York City to complete a Ph.D. in chemistry at New York University.

While working at Columbia University Cancer Research Institute and later at MIT in molecular toxicology, Brown became intrigued by the link between pollution and cancer. This interest led her to become chief toxicologist and public health policy adviser to the Commissioner of the Massachusetts Department of Environmental Protection in 1980. For five years, she directed the agency’s activities in risk assessment, public health policy, and environmental research, informing environmental policy from a scientific perspective.

It was the intellectual challenge to teach at the intersection of environment and society that attracted Brown to a new faculty position in Clark’s interdisciplinary program in Environment, Technology, and Society in 1985. With her new ETS colleagues, she



Halina Brown

examined the management of environmental and occupational hazards by U.S. facilities in developing countries, sponsored by a National Science Foundation grant.

“We saw how a host country’s development objectives can compete with environmental and occupational health objectives,” says Brown. In Thailand, for example, the government-provided infrastructure led to a dangerous concentration of hazardous industries in small geographic areas.

After the fall of the Soviet block, Brown worked for many years in Poland, funded again by the National Science Foundation. She tested, with Professor Rob Goble, the then widely held hypothesis that the high incidence of lung cancer in industrialized western Poland was the result of environmental pollution. “We concluded that occupational and social factors, rather than environmental pollution, were most likely responsible for the elevated cancer rates.” Brown’s and Goble’s results spurred more research on the link between pollution and lifestyle factors and cancer.

During the 1990s Brown’s work in Poland explored the adaptation of the regulatory system for environmental and occupational protection to democracy and market economy. With colleagues David Angel and Patrick Derr, she explained Poland’s success in build-

ing an effective regulatory system by a set of deeply embedded cultural and political factors.

Most recently, Brown is interested in the societal transition towards sustainability, in particular, the role of technology and contribution of the industrial sector to the transition.

“We need to consider both social change and technology to have a sustainable society,” says Brown. “What do corporations do best? Innovate. They have the ability to innovate technology to meet the needs of developing countries. Their responsibility is to introduce products that can take us toward sustainability.”

Brown’s two books look at corporate responsibility to the environment: *Corporate Environmentalism in a Global Economy: Societal Values in International Technology Transfer*, Quorum Books, 1993, with Patrick Derr, Ortwin Renn, and Allen White; and *Effective Environmental Regulation: Lessons from Poland’s Experience*, Praeger 2000, with David Angel and Patrick Derr.

Currently Brown teaches the core ES&P course, “Management of Environmental Pollutants,” as well as “Sustainability, Institutions, and Policy-Making,” “Cancer: Science and Society,” “Environmental Toxicology,” and “Introductory Case Studies in ES&P.”

Says Brown, “I hope my students will return to their countries to work toward sustainability with knowledge from my classes about the strengths and limitations of a purely scientific method, about corporate social responsibility, and about environmental policy.”

A fellow of the International Society for Risk Analysis, Brown is also a board member of the Greening of Industry Network. She has served on numerous advisory committees for the U.S. Environmental Protection Agency, the National Science Foundation, the National Academy of Sciences, and the Commonwealth of Massachusetts. In recognition of her distinguished contribution to the study of science and society, Halina Brown was named Fellow of the American Association for the Advancement of Science in 2002.

Mark Tigan: Building Communities from Coast to Coast

His air of relaxed confidence gives the impression that Mark Tigan has seen it all—and in the field of community development, he has. In fact, he wrote the book. Respected for his 30 years of experience in housing and economic development, Tigan was contracted by the U.S. Department of Housing and Urban Development (HUD) to create two comprehensive guidebooks: *Economic Development 'Tool Box'* (1996) and *Economic Development with Block Grants* (1989).

Tigan's success in attracting millions in federal funds and foreign investment for economic development in struggling communities has been recognized in the Washington Post and on the McNeil-Lecher Report. For the last two decades as a private consultant, Tigan has shared his insights with practitioners. Presently he teaches in IDCE's Program of Community Planning and Development.

Tigan's experience in U.S. community development stretches from coast to coast. Born in Illinois, Tigan gravitated to California in the sixties and received an M.A. in public administration in 1972 from San Jose State University. After working a year in housing in San Francisco, he was selected for the Urban Technical Services Program of HUD. The program trained young urban planners in federal grant seeking and implementation, then assigned them to rural areas.

Matched with Saint Bernard, Ohio, Tigan focused on obtaining federal loans for low-income residents to rehabilitate their homes. When he learned that the Ohio State Constitution did not allow public money to be used for private benefit, Tigan helped to craft special legislation that changed the state prohibition. Still in force, the legislation allows municipalities across Ohio to tap federal grants to benefit private redevelopment.

Next Tigan rolled up his sleeves and headed to Winooski, Vermont, a mill town in greater Burlington with high unemployment, housing in disarray, and dwindling commerce. "I found my professional feet and courage in Winooski," he says.



Mark Tigan

From 1974 to 1982, Tigan grew the industrial base and rehabilitated three vacant textile mills for adaptive reuse. He completed two Urban Development Action Grants (UDAG) for low-income mixed-use housing and initiated an innovative "Landlord Investment Incentive Program." His efforts attracted to Winooski more federal money per capita than any city in U.S., except one. Unemployment in Winooski dropped from 15 percent to 7 percent during his tenure.

"We built an industrial park and created investment by targeting Canadian business that wanted to expand to the United States," says Tigan. "I instituted a promotional campaign in Canada and filled the industrial park in less than year. At that time Canada's Premier Leveque was pitching nationalization of businesses—so concerned businesses came to Winooski." Tigan's observation, "Rene Leveque is Vermont's best industrial developer," became a Washington Post headline for its Sunday International Section.

A challenge of a different sort waited for Tigan in Santa Monica, California, in 1982, when he was recruited as director of the Department of Community and Economic Development. "In Santa Monica I had to learn how to control investment rather than

stimulate it," Tigan notes. Aided by Community Development Block Grants, Tigan directed hotel expansion, housing construction, and commercial development. He established two nonprofit development corporations for the reconstruction of Santa Monica's downtown 3rd Street Mall and beachfront pier areas.

"I tried to avoid gentrification and to make sure the revitalization patterns were well planned, so the redevelopment would not become a Disneyland," Tigan says. In Santa Monica, he completed a \$275,000 citywide Master Plan, supervised completion of a local Coastal Plan, completed acquisition of \$5.5 million real estate for public use, and directed a \$10-million waterfront redevelopment project.

Since 1984, Tigan has shared his experience, first as a founder of the Community Training Institute of Newport, Rhode Island, and now as an instructor at University of Rhode Island, University of Massachusetts/Boston, and Clark University.

"My strength is that I bring the real world into the classroom," Tigan says. "I tell students that I've made all the mistakes and can tell them which not to make. Students can flag wetlands," he notes, "but they don't know to handle the politics of Conservation Commissions. They know zoning, but don't know the impact of zoning on real estate values."

At IDCE, Tigan teaches courses in "Community Development Finance," "Decision Making and Negotiation in Community Development," and "Nonprofit and NGO Management."

"Clark CDP students are some of the brightest and most passionate I've seen," Tigan says. "Community development and planning programs are often combined with landscape architecture, but not at IDCE. To be effective, community planning has to be based in real-world politics and economics."

2004 IDCE Student Awards

GISDE Student Wins Award at AAG

Evan Fedorko (GISDE/MA '05) won the "Best Master's Student Poster Award" from the Water Resources Specialty Group for his presentation entitled, "Nitrate Runoff and Land Cover in the Ipswich River Watershed, Massachusetts," at the 100th Anniversary meeting of the Association of American Geographers (AAG).

GISDE students **Sarah Elliott, Silvia Petrova,** and **Kristopher Kuzera** also presented posters at the AAG Annual Meeting. Sarah presented the poster, "Local Land Use Change in Olathe, Kansas," while Silvia and Kristopher, who collaborated on a poster, presented "Change Analysis of Northborough, Massachusetts, 1987-2001."

Presidential Management Fellowships

The Federal government's highly selective Presidential Management Fellowships provide experience in federal agencies and Cabinet departments, often leading to full-time employment.

Christopher Coppenbarger (ID/MA '03) has a Presidential Management Fellowship (PMF) for a two-year assignment with the FBI Criminal Investigation Division.

Briera Dale ID/MA '03 is also a Presidential Management Fellow, working in Human Resources at USAID, and **Carrie Conway ID/MA '03** is a PMF finalist, waiting for assignment.

Carrie Conway ID/MA '03 and **Briera Dale ID/MA '03** are Presidential Management Fellowship finalists, waiting for assignments.

David L. Boren Fellowships

The David L. Boren Fellowships, part of the National Security Education Program, enable U.S. graduate students to specialize in area and language studies in regions where the U.S. is committed to economic growth, security, and the promotion of democracy.

Daniel Putnam (ID/MA '05) has been awarded a Boren Fellowship to conduct research in Nepal on the "The Maoist 'People's War' in Nepal: Implications for Development Programming in the Himalayan Kingdom." He will explore how international NGOs and development agencies have been affected by the civil war to extend the literature from humanitarian assistance in conflict/post-conflict situations to the development industry.

Brian Atkinson (ID/MA '05) received a Boren Fellowship for field research in Colombia on the success or failure of alternative agricultural development programs to provide feasible alternatives to coca cash crops for rural subsistence farmers in the Putumayo region.

Melder Award

Sehin Teferra (ID/MA '04) received a Melder Award to conduct research in Ethiopia on the effectiveness of three indigenous nongovernmental organizations in informing the public about the harmful effects of female genital mutilation (FGM).

Sara Krosch (ID/MA '05) received a Melder Award to create product marketing films documenting the experiences of women's micro-credit groups in Cape Coast, Ghana.

Jennifer Keahey (ID/MA '05) received a Melder Award to research the Income Generating Activities Program of TRAX Ghana, which supports sustainable agriculture and community development in northern Ghana.

Kamweti Mutu (ID/MA '05) received a Melder Award to work with the African Conservation Center to study the effectiveness of community conservation initiatives in Kenya.

IDCE Travel Awards

Rie Taniguchi (ID/MA '05) received an IDCE Travel Award to Bolivia to evaluate small micro-enterprise projects of rural migrant women working with Centro-Integral de WARMI in Cochabamba.

Zachery Feris (ID/MA '05) received an IDCE Travel Award to Ecuador to research the evolution of development programs along the Peruvian border.

Kamala Gurung (ID/MA '05) received an IDCE Travel Award to Nepal to examine gender relations and socio-economics in sustainable management of livestock and pasturelands.

Amnesty International

Brian Atkinson (ID/MA '05) a Patrick Stewart Human Rights Scholarship from Amnesty International to work with MINGA, a grass-roots human rights organization in Bogotá, to research the impacts on rural subsistence farmers in the Putumayo region of Plan Colombia's fumigation campaigns to eradicate coca production.

Undergraduate Student Awards Anton Fellowships

Two ID double majors have received Anton Fellowships, which support creative research and public service projects. **Akoslua Ampofo '05**, with mentor Laura Hammond, will conduct research in Gikongoro, Rwanda, to assess how socio-cultural, political, environmental, and economic factors affect the decisions youth-headed households make to improve their living conditions. **Alejandra Molina '05**, with mentor William Fisher, will research bicomunal efforts at reconciliation of two NGOs working in Cyprus with both Greek Cypriot and Turkish Cypriot women.

Alejandra Molina also received IDCE's Theodore Von Laue Undergraduate Award in International Development. This award recognizes a student whose work is committed to peace, human well-being, and environmental justice.

Marshall Geer McKim Scholarship

Heidi Kaufman, an ID/Studio Art double major, received a 2004-05 Marshall Geer McKim Scholarship of \$1,000 for her study in Namibia.

Students Attend 2004 World Social Forum

William Fisher, director of the IDCE Department, and doctoral student Thomas Ponniah attended the World Social Forum in January 2004 in Mumbai, India, accompanied by ID majors Kara Pravdo '04, Melanie Soter '04, Margaret Madigan '06, and Johanna Walczak '06. The ID students received an IDCE Travel Award to partially cover expenses.

Fisher and Ponniah co-edited the first book in English on the forum, *Another World Is Possible*, which discusses popular alternatives to globalization. Fisher and Ponniah have been featured in interviews with media from across the country, including California, Ohio, Wisconsin, Atlanta, and Boston. Himal magazine, a major news journal in South Asia, will publish an article about the World Social Forum written by Fisher.

One of the largest gatherings of social activists and nongovernmental organizations, the World Social Forum attracted nearly 100,000 people from about 2,600 organizations and 132 countries to discuss alternatives to the current form of globalization.



Attending the 2004 World Social Forum in Mumbai, India: (l-r) Margaret Madigan, Kara Pravdo, Professor William Fisher, Johanna Walczak, and Melanie Soter.

IDCE Logo Contest Winner



Carissa Williams (ES&P/BA/MA '04) won the IDCE Student Logo Contest to design an informal logo for the IDCE community. Williams was presented a cash prize, and her winning logo will appear on IDCE student memorabilia.

For four days the ID majors joined this intergenerational gathering of women's groups, indigenous groups, marginalized peoples, university students, and development practitioners. They attended forums and panel discussions about global economic processes, development and displacement, and the role of women in war.

Says Kara Pravdo, "I wanted to hear other people's points of view and to be able to exchange ideas that could lead to international understanding and solidarity. The forum shows worldwide concern and hope for a better future. It showed me that it is possible to make international connections and speak to people instead of for them. Participating in the WSF gave me the chance to meet people who are actually living out struggles right now that I have only read about. It also taught me a lot about organizing on an international level for concrete change."

With the help of Amrita Patwardhan and Joe Athialy (both studied at IDCE with Edberg Foundation Awards), the ID students also joined a "Tour of Social Movements" through the Indian states of Maharashtra, Madhya Pradesh, and Gujarat, organized by the National Alliance of People's Movements.

They visited the victims of the 1984 Union Carbide gas disaster in Bhopal and traveled by train, jeep and boat to the Narmada Valley. They also toured several villages threatened by submergence caused by the partially constructed Narmada Dam.

Activist Medha Patkar, world-renowned for her work with the Save the Narmada Movement, traveled with the tour in the Narmada River Valley. Notes Johanna Walczak, "Medha Patkar is amazing; she's such a strong woman and a fighter. We had dialogues with people from the village—the people would speak about their struggles and what they are doing. We wanted to make connections with what they are experiencing in India and what we are doing in U.S., such as demonstrations against the IMF and World Bank. The experience in India drove home the fact that for an activist in the United States, the struggle feels very abstract. We march down a street in Washington past the World Bank, then go home. In India we experienced people's everyday struggles and their tangible realities."

Professor Fisher and ID graduate and undergraduate students also attended the World Social Forum in Brazil in 2003.

Conference on Surviving, Resisting and Reshaping Conflict: Women's Experiences

Graduate students from the IDCE Department and Women's Studies Program coordinated and organized a conference entitled "Surviving, Resisting and Reshaping Conflict: Women's Experiences" on October 9-10, 2003. The conference focused on women's experiences in conflict situations and explored women's essential role in conflict resolution in places such as Burma, Northern Ireland, Palestine, and Somaliland.

The idea for the conference began when students formed the Women and Conflict Working Group. The goal of this unique student-led initiative was to bring together students from different disciplines to focus on the various ways women deal with conflicts, not just as victims, but also as mediators.

The group's first activity was a panel discussion to provide a brief overview of how women are affected by conflict. With more than 100 participants and an overwhelmingly positive response, the group decided to organize a conference that would allow participants to further their understanding on this issue.

The core organizing group for the conference, **Sehin Teferra** (ID/MA '04), **Shukri Abdillahi** (ID/MA '04), **Ruth Allen** (ID/MA '03), **Solange Bandiaky** (Women's Studies Ph.D. candidate), **Jennifer Smith** (ID/MA '04), and **Veena Sampathkumar** (ID/MA '04) planned discussions and films leading up to the conference as well.

During the conference, IDCE students, alumni and professors held a variety of workshops: ID Professor **Laura Hammond** and **Shukri Abdillahi** led the workshop on "Using Participatory Tools for Peace building in Somaliland"; **Hellen Amuguni** (ID/MA '99) coordinated the "Women and Conflicts over Natural Resources" workshop; **Kathleen McHugh** (ID/MA '04) led the workshop on "Burmese Women and the Trauma of War"; and **Ruth Allen** led the workshop/seminar on "Female Youth Surviving and Resisting Conflict." Many other Clark students and faculty assisted in facilitating workshops and

volunteering with logistics and registration.

IDCE Research Professor **Cynthia Enloe**, co-founder and former Director of Clark's Women's Studies program, gave the closing address on current issues regarding women and militarization.

When asked what she learned from the conference, Jennifer Smith replied, "The conference inspired me to look deeper at the connections between U.S. foreign policy and civil war abroad, especially in the case of Colombia. [Human rights activist and journalist] Nancy

Sanchez's presentation of women's activism in the Putumayo Colombian Amazon region as a result of U.S.-backed Plan Colombia made me see why it is so important to highlight and celebrate people who are making a huge difference in their communities. In the celebration we see how we are connected and can contribute to each other, even as citizens thousands of miles from one another."



Organizing in the conference on "Surviving, Resisting and Reshaping Conflict: Women's Experiences" were (l-r) Veena Sampathkumar, Jennifer Smith, Solange Bandiaky (Women's Studies Ph.D. candidate), Sehin Teferra, Ruth Allen, and Shukri Abdillahi.

IDCE and Women's Studies at Clark University, as well as the American Association of University Women, Burma Border Projects, and Seeds of Peace provided funding for the conference. IDCE and Women's Studies students will continue the dialogue on women's roles in society and their impact in shaping their environment.

IDCE Field Trips

The ES&P "Watershed Stewardship" class with Professor Tim Downs took a weekend field trip to **Lake Champlain** in Vermont to tour the watershed and the new ECHO (Ecology, Culture, History and Opportunity) Center for environmental education. Lake Champlain watershed stewards belong to the LakeNet group that shares best practices and experiences for lake restoration and watershed stewardship worldwide.

First-year ID graduate students traveled with Professors Fisher and Hammond to **Washington, D.C.**, on a **Career Development field trip** in April 2004. They met with representatives of the World Bank, USAID, Refugees International, Winrock International, World Food



ES&P student Jessica Steele on the Lake Champlain field trip.

Programme, Inter-American Development Bank, American Red Cross, Associates in Rural Development, and Human Rights Watch.

Internship Experiences of IDCE Graduate Students

Lara Bold MA '05 and **Mike Colan MA '05** researched best practices of downtown revitalization for Worcester's Executive Office of Economic Development.

Lauren Burkert '05, brownfields coordinator with Investar Redevelopment, researches brownfields redevelopment and distressed housing project opportunities and assembles project elements.

Saeed Bencie Abubakari '04, as a consultant with TRAX Programme Support in Ghana, led a mid-term evaluation to assess TRAX's project on *Promoting Low External Input Sustainable Agriculture (LEISA) in Northern Ghana and Savannes Region – Togo*.

Thin Thiri Aung '04, as an intern with Heal the Bay in California, educated the public about ocean pollution and organized a system to estimate the amounts and types of ocean pollution.

Chafi Bakari '04 is an intern at the United Nations Office of Project Services, working on demilitarization, demobilization, and rehabilitation projects in the Republic of Congo.

Stephen Browne '04 and **Jessica Grillo '04** were interns with Fundacion de Apoyo Infantil, (Save the Children-Mexico) in San Miguel de Allende, Mexico. They ran workshops on the cycle of water, composting, and recycling and researched the impact of FAI's nutrition programs.

Shreela Chakrabarti '04 was an ECO Associate with the Environmental Justice Program at ECO.org. With the National Parks Conservation Association, she worked to increase participation by less privileged communities in managing and use of national parks in Massachusetts.

Carrie Conway '04 did a short-term consultancy with the Evaluation and Policy Unit of United Nations High Commission for Refugees (UNHCR) at the headquarters in Geneva.

David Dauer '04 interned with Sewa Lanka Foundation in Sri Lanka. He helped shape Sewa Lanka's peace building activities, conducted field assessments, and built linkages with other peace-building organizations and donors.

Bezaiet Dessalegn '04 conducted a study in Ethiopia for USAID/Ethiopia on the Ethiopian government's program to facilitate the resettlement of 2.2 million people over a three-year period as a strategy to reduce problems of food security.

Arianna Lomas-Gomez '04 interned at La Casa Rosada in Santo Domingo, Dominican Republic, the country's only center that gives shelter, schooling, and health care to orphan and abandoned children with HIV/AIDS.



Sarah Rosenberg (ES&P/MA '04) collects water samples as an intern with the Massachusetts DEP's Division of Water Management.

Sarah Lovell '04 interned as a hydrologist for the US Geological Survey in Providence, RI, where she worked on a water use study for the East Bay and South Coastal Basins of Rhode Island.

Michael Marshall '04 was awarded a National Science Foundation grant to work on "Nutrient Transport Modeling" in the Ecological Modeling and Spatial Analysis Lab at Smithsonian Environmental Research Center.

Kathleen McHugh '04 was an intern with Burma Border Projects on the border town of Maesot, Thailand, where she did a needs assessment for an orphanage on alternatives to infant abandonment by refugee women.

Aparna Nepal '04, as a U.N. Secretariat Intern at the United Nations headquarters in New York, attended the Economic and Social Council's meetings to report major

resolutions to the UN-Habitat's headquarters in Nairobi, Kenya.

Nathan Oetting '04 interned with the U.S. Army Corps of Engineers in East Brimfield, MA. He identified sites within Corps-owned land most suitable for wildlife habitat and developed a management plan specific for these areas.

Sarah Rosenberg '04, as an intern with the Massachusetts DEP's Division of Water Management, worked on the Westfield and

Farmington watersheds, collecting water samples to test dissolved oxygen, turbidity and pH at the hydrolab.

Scott Sweet '04 interned with the Cape Cod National Seashore, creating interpretive maps using Lidar data for analysis of shoreline change, as well as mapping vegetation, salt marsh restoration projects, and endangered species nest sites.

Monica Szymurska '04 is an intern with the Women's International League for Peace and Freedom at the United Nations.

Elikem Tomety '04 interned with the Sub-Saharan Africa Program at Search for Common Ground, Washington, D.C. and reported on briefings on Africa on Capitol Hill.

Carissa Williams '04 interned with the Regional Environmental Council in Worcester, working on community gardens and raising awareness on toxics in the home.

Oriana Eversole: Linking Cultural Arts and Community Outreach

With a diverse background in arts, education, and multiculturalism, Oriana Eversole (CDP/MA '05) has found at Clark University an ideal environment to foster her interests.

Eversole has expressed her passion for performing arts while building expertise in education through involvement in tutoring programs, AmeriCorps, and Teach For America. After graduating with a B.A in anthropology University of Florida in 2000, she worked with at-risk populations in urban schools through the AmeriCorps Hillsborough Reads Program, a literacy program in Tampa, Florida. Simultaneously she pursued her artistic interests by creating an after-school cultural arts program for inner city elementary children and directing plays for high school students.

When Eversole joined Teach For America in 2001, she was assigned to a first-grade, dual-language program in rural Mercedes, Texas, near the border of Mexico. Eversole introduced theater into the schools through an after-school dramatic arts program and in the classroom explored how community development could enhance her students' education through community outreach and parental involvement.

Eversole's desire to combine her interests in education, arts, community development, and sociocultural studies led her to IDCE's Community Development and Planning program. "IDCE is such an eclectic program that it touched on all my interests," she notes. "I applied when I realized how much flexibility I would be given to develop my own research project."

CDP's involvement with the Worcester Educational Partnership, with its Carnegie grant to transform Worcester's public high schools into small learning communities, intrigued Eversole. Through the CDP class on "Field Research in Youth Development and High-School Transformation," Eversole gained first-hand knowledge of education reform and building community within schools.



Oriana Eversole

"This class gave me a broader perspective on effective practices in small learning communities," Eversole says. "We developed research methods, did focus groups, and interviewed students. I went into the high schools to recruit and train student researchers to work on a project, such as a website or documentary to create a student voice. Our team also interpreted what small school transformation means to high school students and presented the results to the school administrators."

The class, "Participatory Tools for Development, Planning, and Action" exposed Eversole to participatory rural appraisal (PRA) tools and taught her to apply them as a facilitator of workshops with Somali residents in Lewiston, Maine.

"It was a great experience to work with the Somali community and stakeholders and to use PRA tools to create a needs assessment and action plan," says Eversole. "It made the participatory process concrete for me. I got a chance to see how community development works when you put the tools in the hands of community members. The Somalis are now taking action on their own to achieve their goals. By staying with Somali families, I also got the opportunity and background to understand cultural differences in cities and the challenges they bring."

The participatory tools Eversole learned also helped in her CDP Practicum in the Piedmont neighborhood of Worcester. "I feel I can take the PRA tools I've learned and apply them in the Piedmont neighborhood, where Worcester Common Ground [a community development corporation] requested CDP to build a stronger link with community members. We are using participatory tools to create a needs assessment and action plan in Piedmont—using PRA in an urban setting seems to transfer well."

While at Clark, Eversole has been most resourceful in finding outlets for her artistic talents. She sings with the Clark Concert Choir, takes voice lessons, and also has acted in a University production of the "Vagina Monologues."

Beyond Clark, Eversole interned as a production assistant for Calliope Productions, a local theater in Boylston, where she helped with a teen musical production of "Anything Goes" and a pre-teen musical, "Honk." She continues literacy initiatives by teaching a beginning reading program at Sylvan Learning Centers.

"My focus has shifted from educational policy to cultural arts in the community to enhance education of both youth and adults," Eversole says. "My particular interest is in working with subgroups in the U.S., particularly high risk and Latino populations, but from an anthropological perspective, to understand cultural differences in an urban setting and the challenges they bring."

"My experiences working with Latino populations—in Mexico, the border culture, and here in Worcester—has taught me that it's critical to acknowledge the importance of culture and celebrate these differences to enhance self-worth. If culture isn't supported, barriers are created. My goal is to create a community arts center that uses diversity in visual and performing arts to make connections between minorities and various cultures in the community. Embracing different cultures will enhance the whole community."

Waddington Chinogwenya: Building a Specialty in Conflict Resolution

From researching South African prisons to preparing political asylum cases for refugees in Worcester, Waddington Chinogwenya (ID/MA '04) has developed a specialty in conflict resolution while at IDCE. This native of Zimbabwe, however, started out in development by working for Care International in Zimbabwe. He served first as an intern with their HIV/AIDS program and then as a monitoring and evaluation officer in the Business Development Services and Market Linkages Program.

To enhance that practical learning, Chinogwenya turned to Clark University's graduate program. "I was attracted to Clark's IDCE program because it was small and provided opportunities for in-depth discussions and developing solid relationships with faculty and peers," says Chinogwenya. "It also had an explicit interest in African development issues and emphasized the importance of the voice of the poor and marginalized in development."

While at IDCE, Chinogwenya has effectively augmented classroom learning with internships. Professor Laura Hammond's class in "Refugees and Forced Migration" led him to an internship with the Lutheran Community Services Refugee Assistance Program, in which he prepared two cases for asylum seekers from Sierra Leone and Togo to present to the Immigration and Naturalization Services. He profiled the background of conflicts in Togo, Sierra Leone, and Rwanda and researched human rights abuses on refugees seeking asylum.

Another class, "Principles of Negotiation and Mediation," heightened his interest in conflict resolution within a development context. He gained a greater perspective in a summer internship with the Human Rights and Conflict Management Program (HRCMP), Center for Conflict Resolution (CCR), which is associated with the University of Cape Town in South Africa.



Waddington Chinogwenya

During this internship, Chinogwenya conducted an impact assessment of human rights and conflict management trainings conducted by CCR for both prison wardens and traditional leaders. The prison wardens participating in the trainings were men and women of different generations—younger black wardens hired after apartheid, as well as older Afrikaaner wardens. Chinogwenya found the majority of the prison wardens open to training about the human rights of prisoners and conflict management procedures. "I enjoyed conducting the sessions in the prisons. Conflict resolution is an essentially qualitative intervention. The challenge for me in monitoring was to figure out what indicators would verify a change in the awareness the wardens had of prisoner human rights," he says.

Chinogwenya also traveled to eight villages in northeast South Africa to determine how effective the HRCMP trainings had been in raising awareness of traditional leaders in their governance and conflict management techniques. He was particularly interested in any increase in community participation in

decision-making and in appreciation for women's and children's rights.

"We went there with all these notions about 'promoting democracy' in traditional leadership," he notes. "While they are not elected by their constituents but inherit power, the administrators were not authoritarian or independent of the concerns of the constituents. If there is a crisis in the community, [the traditional leader] will be directly affected because he lives there. He lives the same life they do. It is certainly a myth that traditional leaders have to cease being traditional to become democratic.

"Through my internship, my understanding of conflict resolution theory and practice has significantly improved. I largely worked independently, and this greatly enhanced my organizational skills and sense of responsibility."

When asked about his IDCE experience, Chinogwenya responds, "Being in Zimbabwe all my life, I had my thoughts of what 'social change' was all about. But when I came here, I realized that the world is a very big place. I could see how diverse—and in some ways, narrow-minded—the world is. My education has been an evolution, a process of becoming realist and an idealist at the same time. An idealist because it reinforced my belief in the goodness of human kind and the potential of well-meaning individuals to come together to help others who are suffering from the misery of poverty and destitution. It reaffirmed my conviction that poverty can be defeated. A realist because I learned that some people do not care about the problems of this world as long as they feel it does not affect their lives. For some, poverty alleviation is a business to profit from. Studying at IDCE has brought some fundamental changes in my world view. I have also gained in my confidence—ID has taught me to believe in myself."

Introducing the IDCE Class of 2004-05

Lina Al-Eryani – ID (Yemen), a Fulbright Fellow, worked at the United Nations Development Program in Yemen as a public affairs officer and translator and most recently as a gender program officer for Oxfam-GB.

Nicole Alleyne – GISDE (Barbados), an Organization of American States Fellow, has worked as a science teacher and researched health issues in the Barbados.

Katherine Anfinson – ID (U.S.) was a community health educator in the Peace Corps in Guatemala and interned at the National Democratic Institute for International Affairs.

Carlos Armas – GISDE (Ecuador) was the data manager/analyst for a project aimed at reducing infant mortality and adverse birth outcomes.

Brian Atkinson – ID (U.S.), an IDCE Peace Corps Fellow, was a leader/coordinator for natural resources projects in the Peace Corps in Honduras and an intern with the Western Farm Workers Association.

Thin Thiri Aung – ID/BA/MA (Burma/Philippines) interned at the Dismas House, a reintegration program for ex-convicts, and worked for the International Programs Office of Payap University in Thailand.

Christopher H. Ayres – GISDE (U.S.) worked at Alpha Analytical Labs as an environmental chemist.

Bryan Becker – ES&P (U.S.) helped improve erosion control techniques as a Peace Corps volunteer in Tanzania and served as an AmeriCorps member and Peace Corps Fellow in Pendleton, Oregon.

Rajpal Bhatti – GISDE (Sweden), a commercial pilot, has had extensive experience with the Federal Aviation Authority of Sweden.

Angeline Bilotta – CDP (U.S.) has worked in Worcester for various non-profit organizations, including The United Way of Central Massachusetts and the Colleges of the Worcester Consortium Inc.

Lara Bold – CDP (U.S.) was an AmeriCorps environmental educator/watershed volunteer leader for the Maine

Department of Environmental Protection and an English as a Foreign Language instructor in the Czech Republic.

Lauren Burkert – CDP (U.S.), as an AmeriCorps environmental outreach coordinator for the Johnstown (PA) Redevelopment Authority, helped to revitalize brownfield industrial sites.

Michael Colan – CDP (U.S.) was an economic organization Peace Corps volunteer in the Republic of Moldova and an AmeriCorps volunteer for public library development in East Oregon.

Catherine Cox – ES&P (U.S.) worked with Photocircuits Corporation, a circuitboard manufacturer, as an environmental engineering technician, laboratory technician, and internal auditor.

Dimsoy Cruickshank – ID (Trinidad and Tobago) interned with the South Carolina Association for Community Development Corporations, where she assisted in program evaluations and collected data.

Zenia Dacio-Mesina – ID (U.S.) was an outdoor education teacher in Ohio, North Carolina, and South Carolina and an environmental education project coordinator with an NGO in Palawan, Philippines.

Stephanie Daniels – ID (U.S.) worked on integrated conservation, fair trade, and organic farming projects with cocoa farmers in Latin America and subsistence farmers in northern Ghana.

Wuni Dasori – GISDE (Ghana) worked for the International Development Research Center in Ottawa, where he did research for the Ecosystems Approaches to Human Health Program Initiative.

Kate Driscoll – CDP (U.S.) was a freelance news writer for Boston's National Public Radio news station and served in AmeriCorps with the Maine Conservation Corps.

Joseph Duncan – GISDE (Ghana) worked in Ghana as a mine surveyor and a geographic information system manager for Aero Surveys Limited and as a geodetic engineer.

Sarah Elliott – GISDE (U.S.) was an environmental extension agent with the Peace Corps in Togo and worked with GIS in the Kansas City Metropolitan Area.

Erin Ellison – CDP (U.S.), as an AmeriCorps member in New Jersey, supervised volunteers at a food bank and worked as an AmeriCorps program coordinator for the Asbury Park Board of Education.

Jennifer Ericson – ES&P/BA/MA (U.S.) is a researcher with the George Perkins Marsh Institute.

Oriana Eversole – CDP (U.S.), an IDCE AmeriCorps Fellow, worked with the AmeriCorps Hillsborough Reads Program in Tampa and was a first-grade dual-language teacher in the Rio Grande Valley, Texas with Teach For America.

Evan Fedorko – GISDE (U.S.) worked with GIS in the management of water as a sustainable resource.

Zachery Feris – ID (U.S.) served as a water and sanitation volunteer with Peace Corps in Honduras and worked as the program director for the New Haven/León Sister City Project.

Brandy Finley – CDP (U.S.) worked as a victim advocate for a district attorney in Colorado and as a victim assistance coordinator for the Juvenile Court Division in Clayton County, Georgia.

David Greene – ES&P (U.S.) worked on water and sanitation projects with WaterPartners International and WaterHealth International, Inc.

Kamala Gurung – ID (Nepal) worked in two organizations in Kathmandu, Nepal, as a program officer, gender and enterprise development consultant, and natural resource management researcher.

Garrick Harmel – CDP (U.S.) worked as a crew leader for the Montana Conservation Corps during two AmeriCorps terms and trained crew leaders to do conservation work.

Michael Hayes – ID (U.S.) taught art in a rural high school as a Peace Corps volunteer in Ghana and has worked with the Peace Corps Headquarters, US Department of Agriculture, and USAID/ Office of Foreign Disaster Assistance.

Marta Kamoho Kapala Hoge – GISDE (Namibia) worked with the Namibia Nature Foundation, where she trained rural communities to manage their natural resources and maintained GIS data for maps of the local conservancies.

Hiroko Ishii – ID (Japan) worked for the Japanese Association for UNCHR and was responsible for fund raising.

Joseph Kabira – GISDE (Kenya) was an agro-meteorologist/remote sensing specialist at the Drought Monitoring Center in Nairobi.

Yeerzhati Karibai – ID (China), a Ford Foundation International Fellow, worked as a local official in Bortala Prefecture, Xinjiang Uygur Autonomous Region in western China.

George Kariuki – GISDE (Kenya) worked with Fintech International on a loan-tracking program in Ethiopia and developed an online database and specialized report system for the 2002 Winter Olympics.

Jennifer Keahey – ID (U.S.) was a teacher-trainer with the Peace Corps in Latvia and a volunteer coordinator for Catholic Community Services.

Patrick Keeler – ES&P (U.S.) interned with FIELD in London and the Banque de France in Paris.

Sara Krosch – ID (U.S.), a high school language arts teacher, served as a Peace Corps volunteer in the Federated States of Micronesia, and also worked as an ESL instructor/teacher trainer in Chengdu, China.

Kristopher Kuzera – GISDE (U.S.) developed geographical products for commercial and educational uses and created maps on environmental land uses, natural regions, and precipitation levels.

Ann Langlais – ES&P (U.S.) worked as a microbiologist/inorganic chemist analyzing water and soil for bacterial contamination for Premier Laboratories in Connecticut.

Arpad Lazar – GISDE (U.S.), an IDCE Peace Corps Fellow, served as a Peace Corps volunteer in Benin, West Africa, an AmeriCorps volunteer in Waynesville, NC, and taught GIS/GPS courses at Haywood Community College in Clyde, NC.

Bang Viet Le – GISDE (Vietnam), recipient of a Vietnamese Ministry of Education and Training grant, was an assistant lecturer in the Geography Department in the Vietnam National University of Ho Chi Minh City.

Arianna Lomas-Gómez – ID/BA/MA (Spain) conducted a project on the Big Sister program in Worcester and participated in a study abroad program in the Dominican Republic.

Corinn Mauldin – ES&P (U.S.) worked in agro-forestry as a Peace Corps volunteer in Cameroon and as a biologist for the National Marine Fishing Service and the Nature Conservancy of Washington State.

Meagan Mazzarino – ES&P (U.S.) taught earth science and chemistry at a rural high school in Massachusetts.

Michael Metivier – ID/BA/MA (U.S.) interned at the Friendly House and volunteered at the Worcester County Food Bank.

Stephen Metts – CDP (U.S.) was the Executive Director of OnRamp Arts, a non-profit organization in Los Angeles that addresses the arts, urban planning, education, and digital technology.

Kiran Mian – ID/BA/MA (Pakistan/UK) was a teaching assistant in Beijing as part of the British Council Teaching in China and coordinator of extracurricular activities/supervisor for grades 8-10 at a public school in Lahore, Pakistan.

Meridith Milesi – CDP (U.S.) was an AmeriCorps volunteer at a homeless shelter in Colorado and with the National Civilian Community Corps, working on education, environment, and disaster relief.

Laura Miller – ID (U.S.) worked as an intern at Mercy Corps International and served as a Peace Corps volunteer in the Ivory Coast.

Julie Morin – ID (U.S.) as a Peace Corps volunteer coordinator in Guyana, worked with an Amerindian school, and a local

women's group, and later managed a program for at-risk youth in New Mexico.

Tamirat Mulu – ID (Ethiopia) has supervised humanitarian assistance programs with Oxfam GB and USAID and was a socio-economic/project planning expert with the Ministry of Agriculture and the Commission of Sustainable Agriculture in Ethiopia.

Kamweti Mutu – ES&P (Kenya) developed GIS-based maps and gathered field data for the Broad Meadow Brook Audubon Sanctuary and served as a lead field manager for the New Brunswick N.J. PIRG Citizen Lobby to environmental issues.

Angela Mwandia – ES&P (Kenya) worked on enterprise development projects in Somalia and Somaliland for an international organization, where she conducted market and community needs appraisals.

Huanxia Ning – ID (China), a Ford Foundation International Fellow, was a gender and development program officer for the Shaanxi Research Association for Women and Family, and a vice-director of rights and interests department of the Shaanxi Provincial Women's Federation.

John Nsibirwa – GISDE (Uganda) worked as a structural/bridge engineer for Dewberry, a Boston consulting engineering firm.

Boriana Pangelova – GISDE (Bulgaria), as a geodesist and cartographer, used GIS to make digital maps for urban planning and public administrative services, and helped create a geographical database for Bulgaria, Macedonia, and France.

Jonathan Papazian – ES&P/BA/MA (U.S.) worked with the Clark's Information Technology Services and interned with Clark Labs beta testing Idrisi 32.

Seema Parakh – ES&P (India) was an information architect at Planetasia and initiated programs for low-income women and children in Howrah township in Calcutta.

Willie Peeples – ES&P (U.S.) studied at the College of Aeronautics, New York Institute of Technology, and Harvard University.

Maria Amalia Pesantes – ID (Peru), a Fulbright Fellow, worked as a researcher on health issues for PRISMA, and as a gender advisor for AIDSESP, an association of Amazonian indigenous peoples from Peru.

Silvia Petrova – GISDE (Bulgaria)

worked in Bulgaria as a GIS specialist, creating and supporting geographical databases and preparing map layouts.

Basanta Pokharel – ID (Nepal), a World Bank Fellow, worked with The Asia Foundation and managed a USAID-funded women’s empowerment program.

Joseph Prah – GISDE (Ghana) was a GIS analyst with the Ghanaian Department of Urban Roads, creating a road network map and a computerized road management and maintenance system.

Daniel Reich – ES&P (U.S.) was employed as a computer technician and in home electronic sales by Sears, Roebuck and Company.

Corrine Robinson – CDP (U.S.) worked with the Warren Metropolitan Residents Council in Ohio. She was also a literacy specialist for an AmeriCorps ACT program and AmeriCorps VISTA member at Children’s Hunger Alliance.

Elizabeth Roessler – ES&P (U.S.), an IDCE AmeriCorps Fellow, served in AmeriCorps in Washington, Oregon, and Colorado and has provided technical assistance and volunteer coordination for the Virginia Water Resources Research Center.

Florencia Sangermano - ES&P (Argentina) has researched soil geocology of sedimentary environments at the Centro de Geologia de Costas y Cuaternario.

Divya Seth – ES&P (India) promoted environmental, health, and safety awareness at the Maitreyi College of the University of Delhi and worked as a research associate volunteer at the Center for Science and Environment.

Andre Soh – ID (Cameroon) was a language and cross-cultural trainer with the U.S. Peace Corps, teaching French and Pidgin, and worked as a high school French teacher in Durham, North Carolina.

Christine Soliva – ES&P (U.S.) worked for the San Francisco Bay National Wildlife Refuge as an environmental education intern.

Jessica Steele – ES&P (U.S.) worked for the Copper Country AmeriCorps, serving at Big Brothers/Big Sisters in Houghton and

Hancock, Michigan, where she oversaw the High Five Mentoring Program.

Sulley Sumani – ID (Ghana), a Compton Foundation Fellow, was the National Coordinator for Disaster Preparedness and Response for the Ghana Red Cross Society for eight years.

Eben Swain – GISDE (U.S.) worked on environmental education and grant writing as coordinator for an environmental outreach program in Belize and worked as an environmental instructor for youth in Los Angeles.

Rie Taniguchi – ID (Japan) assisted in the systematization of projects during an internship at the field office of Save the Children/Canada in Cochahamba, Bolivia.

Carissa Williams – ES&P/BA/MA (U.S.), as a HERO fellow, is working to create a digital GIS database of 1951 land use in Central Massachusetts.

Robert Yao-Kumah – GISDE (Ghana) worked in Ghana with gold exploration companies and for Bogoso Gold Ltd. as a mine project surveyor responsible for rehabilitation of mined pits and community outreach.

IDCE Speaker Series

The IDCE Speakers Series brought noted environmental experts and development practitioners to campus to share their experiences with IDCE students. Speakers and their topics included:

- ♦ **Carol Wagner**, former director of a peace center in San Francisco Bay; author of *Soul Survivors: “Survivors of Cambodia’s Genocide”*
- ♦ **Michelle Rowley**, lecturer at Centre for Gender and Development Studies, University of the West Indies, Barbados: “When the Post-Colonial State Bureaucratizes Gender: Lessons from the Trinidadian State”
- ♦ **Thomas Dichter**, author of the book (and his speech topic): “Despite Good Intentions: Why Development Assistance to the Third World Has Failed”

- ♦ **David Barkin**, fellow of the Mexican Academy of Science; member of the National Research Council of Mexico; professor at Universidad Autonoma Metropolitana: “Alternatives to Globalization: Peasant Strategies for Sustainable Development”
- ♦ **Anne Rademacher**, Yale School of Forestry and Environmental Studies: “Past, Present, and Future Ecologies: Humans and Habitat in the Case of Urban River Restoration in Kathmandu”
- ♦ **Jeff Crisp**, head of the Evaluation and Policy Analysis Unit, United Nations High Commissioner for Refugees (UNHCR): “Assault on Asylum: Globalization, Migration, and the Future of the Refugee Regime”

- ♦ **Cynthia Enloe**, IDCE research professor and former Director of Clark’s Women’s Studies Program: “Feminists Track the Global Sneaker”
- ♦ **Shukri Ismail**, member of the National Election Commission of Somaliland: “Somaliland’s Current Political Situation”
- ♦ **Catherine A. Roberts**, professor, Department of Mathematics & Computer Science, Holy Cross: “River Running on the Colorado River in the Grand Canyon: History, Current Practice, and the Role of a Mathematician”
- ♦ **Priscilla Johnson**, water technology specialist, Environmental Operations Business/Dow Chemical Company: “The Sustainability Equation: An Industrial Perspective.”

IDCE Alum Notes

Saeed Abubakari Bantie (ID/MA '04) is the East Africa Program Officer for Heifer Project International, based in Little Rock, Arkansas. His responsibilities include monitoring and evaluation, program planning, and writing grant proposals for existing Heifer projects in Africa as well as developing strategies for expanding into new countries.

Kathleen McHugh (ID/MA '04) is a program specialist with Save the Children headquarters in Westport, Connecticut. She does the monitoring and evaluation of some of Save the Children's 33 overseas programs.

Ruth Allen (ID/MA '03) is the Research Associate for the Conflict Management Group in Cambridge, Massachusetts, where she supports conflict resolution and leadership trainings and conducts research linking conflict resolution with development, humanitarian assistance, and gender issues.

Ahmad Bintouq (GISDE/MA '03) is pursuing a Ph.D. in geography at Indiana State University on a full scholarship.

Laura Burnham (ID/MA '03) is the Program Manager/Research Coordinator for The Academy for Peace and Development in Hargesia, Somaliland.

Jeremy Casterson (ID/MA '03), a Presidential Management Intern, is the Planning and Environmental Coordinator for the U.S. Bureau of Land Management. He coordinates the Northwest Colorado Stewardship Partnership and increases participation among the stakeholders of public land management.

Mang Lung Cheuk (GISDE/MA '03), Maction Komwa (GISDE/MA '03) and Aditya Agrawal (GISDE/MA '01) were among the GISDE alums who presented posters at the 100th meeting of the Association of American Geographers in Philadelphia in 2004.

Mang Lung Cheuk (GISDE/MA '03) is pursuing a doctorate in geography at the University of Oklahoma on a full scholarship.

Annie Gorski (CDP/MA '03) works for Investar Redevelopment of Worcester and assists site owners, investors, and service providers to clean up, package, and invest in redevelopment sites throughout New England. She is also one of the owners of CLEANdirt, LLC, a web-based affiliate that offers products/services to assist home owners in determining potential health risks.

Rose Heil (ES&P/MA '03) is an Environmental Protection Specialist working with the Standards and Risk Reduction Branch of the EPA Office of Water. She focuses on developing Safe Drinking Water Act regulations.

Maction Katundu Komwa (GISDE/MA '03) received a full scholarship to pursue a doctorate in geography at George Mason University in Fairfax, Virginia.

Jill-Elisabeth Mailloux (ES&P/BA '03) has been accepted into the MA International Public Law Program at the University of Leicester in Leicester, United Kingdom.

Ethan W. Moore (ES&P/BA/MA '03) is a methods and procedures analyst for Strategic Partners, Inc., which is an organizational development, consulting, and training company in Potomac, Maryland.

Lou Paladino (GISDE '03) is a GIS research engineer for I Sciences, LLC, where he does GIS analysis for international development and natural resource management applications. His work includes geospatial vulnerability modeling of malaria.



James Salo (ES&P/BA/MA '03) is working toward a Ph.D. at Oxford University in England in geography and environment, focusing on corporate accountability, Green Market indexes and rating systems.

Emily Shusas (ES&P/MA '03) is a research scientist with the Bureau of Communicable Disease Control of the New York State Department of Health (NYSDOH). She analyzes existing data systems for human and mosquito West Nile Virus surveillance to quickly assess disease outbreaks and clusters.

John Tomczuk (ID/MA '03) worked on the U. S. Peace Corps Typhoon Relief and Recovery Project in Chuuk, Micronesia as a Crisis Corps Volunteer.

Khalid Al-Ghamdi (GISDE/MA '02) is pursuing a Ph.D. in geography (GIS) on a full scholarship at the Department of

Family News

Professor Laurie Ross and her husband Jeff Black, welcomed their new daughter, Zoë, on May 1, 2004.



Fatima Tannagda (ID/MA '03) and **(Scott Pavolko ID/MA '03)** were delighted to greet their daughter, Winsuma, born in Worcester on December 15, 2003.

Ioana Popescu Bouvier (GISDE/MA '00) and **Bob Bouvier (GISDE/MA '00)** are proud parents of a daughter, Anca Elizabeth, born on August 1, 2003.

Tim Abbott (ID/MA '96) has a new son, Elias Taylor Abbott, born in August 2003, who joins his sister Emily, now three years old.



Robyn Fink (ID/MA '03) married Vincent Bertholon in Playa del Carmen, Mexico on October 25, 2003.

Nina Bhatt (ID/MA '95) married anthropologist and author Jonah B. Blank, at Battell Chapel at Yale University, New Haven, Connecticut, in July 2003,

Aaron Dushku (GISDE/MA '01) and his wife, Leni, are the proud parents of a daughter, Sofia Elizabeth, born in July 2003.

Geosciences at the College of Natural Sciences, University of Fribourg, Switzerland.

Stephen Ambagis (GISDE/MA '02) is a program assistant (GIS specialist) with Winrock International's Ecosystem Services Unit. His work on carbon monitoring and assessment is primarily in developing countries of South America, Africa, and Southeast Asia.



David Benz (GISDE/MA '02), as a remote sensing research assistant at the Université Catholique de Louvain, Belgium, is involved in a time series analysis of land cover change in Africa.

Kevin Denman (GISDE '02), a GPS/GIS specialist for Waypoint Technology Group, does GIS mapping and analysis projects on asset inventory, optimization of resources, and disaster management.

John D. Head (GISDE '02) created Head Consulting, LLC, with clients including the Muddy River Restoration Project, a \$91-million dollar flood mitigation and habitat restoration project, and Northeastern University's Emergency Management and Disaster Mitigation Plan.

Kai Chi Leung (GISDE/MA '02) is pursuing his PhD at the University of Minnesota's Department of Geography. He has a research assistantship with a National Science Foundation project, the National Historical Geographic Information System.



Beth Suedmeyer (GISDE/MA '02), a research assistant at Tufts University's Veterinary Medical School in Grafton, MA, coordinates the GIS for conservation medicine projects.

Naomi Matsumoto (ID/MA '02), a project officer for MeRU, Japan (Medical Relief Unit), is now based in Mazar-e-sharif, Afghanistan.

Anthony Rogers-Wright (ES&P/MA '02) is an environmental scientist for AMEC Earth and Environmental. His duties include EA/EAR/EIS processes, air and noise quality assessments, as well as land and water sensitive species surveys. Among his clients are the Federal Government, Army Core of Engineers, and major construction companies in California.

Thomas Christopher (ES&P/MA '01) is the Senior Project Manager for Resource Management, Inc. of Ashland, New Hampshire. Responsible for permitting projects in Massachusetts for the "Short Paper Fiber" Program, he focuses on reclamation of disturbed land areas and landfill projects.

Hugh Hogan (ID/MA '01) is the Executive Director of the New York-based North Start Fund, a partnership of donors and community activists dedicated to building a permanent institutional and financial base for progressive social change.

Naoko Kubo (ID/BA/MA '01) works for the Global Reporting Initiative (GRI) in Amsterdam, The Netherlands, in project research.

Amy Nelson (GISDE/MA '01) works for Baker Engineering in Alexandria, Virginia as a GIS consultant for various federal, state, and local government agencies.

Kirsten Taylor (ID/MA '01) is the program coordinator of a family strengthening program for Catholic Charities in Pueblo, Colorado, and works with families from the Latino migrant population.

Paul Burgess (ID/MA '00) works as a research analyst for the Redlands Institute (RI) at the University of Redlands Center for Environmental Science and Management in California.

Catherine Corbett (ID/MA '00) is a senior scientist at the Charlotte Harbor National Estuary Program in Florida.

Bravo!



The following IDCE students have successfully completed their master's degree studies in International Development, Community, and Environment at Clark University in 2003-2004.

ES&P Master's Program

Catherine Buckley
Casey Burns
Shreela Chakrabarti
Charles Clark
Eve DiPietro
Alexandra Dichter
Irena Drasksic
Jennifer Ericson
Jennifer Farley
Jean Gondwe
Shilpa Khadka
Sarah Rosenberg
Carissa Williams

CDP Master's Program

Amy Mosher
Angel Riepe
Colleen Schacht-Adams
Anna Terry

GISDE Master's Program

Clement Alo
Monique Beaujon
Ahmad Bintouq
Shalini Gupta
Joseph Mlotha
Louis Paladino
Joseph Spencer
Scott Sweet
Olufunmilayo Thontteh
Mathew Traina
Megan Van Fossen

ID Master's Program

Saeed Abubakari
Saulo Araujo
Stephen Browne
Waddington Chinogwenya
Bezaiet Dessalegn
John Granville
Jessica Grillo
Kathleen McHugh
Francis Odeke
Veena Sampathkumar
Monika Szymurska
Sehin Teferra
Elikem Tomety

Mark Hayward (GISDE/MA '00), as GIS officer for the Conservation & Fisheries Department, British Virgin Islands, coordinates the BVI GIS Steering Committee, which is creating the policy for the National GIS Core Facility.

Kate Lazarus (ID/MA '00) is Oxfam America's Regional Program Officer for East Asia and team leader for programs on water (watershed management, hydropower/energy issues) and extractive industries (mainly gas pipelines and mining). She recently published an article on the Lashi Watershed Project in China in the Woodrow Wilson Center's China and Environment Series.

Robert Oliver (ID/MA '00) supervises refugee operations for the UN World Food Programme in Guinea, particularly for refugees from Ivory Coast, Liberia, and Sierra Leone.

Aileen Giovanello (ES&P/MA '99) is an environmental planner at Tetra Tech FW, Inc. in Boston, MA.

Mary Schmuki (ID/MA '98) is in Sudan consulting with various local and UN groups in order to prepare for post-peace recovery and rehabilitation.

Rasa Zimlicki (ID/BA '98), as field coordinator for the Environment and Health Program of Physicians for Social Responsibility (PSR), manages field activities, outreach strategies and implements PSR's agenda to involve the health community in environmental health policy making.

Robert Beaudoin (ETS/MA '97), as Superintendent of Environmental Services for Lexington, MA, coordinates Lexington's solid waste and household hazardous waste management programs.



Matthew Reiser (ETS/MA '92), an independent compliance specialist, does air, water, and waste permitting; compliance planning, training, and auditing; and regulatory reporting.

Nina Bhatt (ID/MA '95) completed a Ph.D. in cultural anthropology from Yale University in December 2002. Her dissertation, "King of the Jungle: An Ethnographic Study of Identity, Power, and Politics Among Nepali National Park Staff," analyzes the relationship between monarchy and the identity of government officials. Upon completion of her degree, she re-joined the World Bank to draft the World Bank Strategy for Social Development. She now works with the World Bank East Asia Region's Environment and Social Development Sector Unit on issues of social accountability and governance, pro-poor growth, and safeguard policies.

Rachel Stoler (ID/MA) is the Prevention Program Coordinator for the Community Coalition for Teens in Greenfield, MA.

Katherine Barbieri (ID/MA '89) will join the University of South Carolina as associate professor in the Political Science Department in Fall 2004. Last year she published the book, *The Liberal Illusion: Does Trade Promote Peace?*

2004 Fulbright Scholars

Daniel Putnam (ID/MA '05) was awarded a Fulbright Fellowship to Nepal to research the ways in which decentralization policies for development programming—created by His Majesty's Government of Nepal and fashioned by international development agencies—have shaped the character of local-level institutions in terms of autonomy, self-reliance, and sustainability. Putnam will assess the impacts of decentralization on local-level development programming with a focus on questioning the degree to which promotion of autonomy, sustainability, and self-reliance at the district level has been successful. The research is significant for post-conflict development planning where zones will be influenced by either HMG or Maoists.

Putnam has a B.A. in environmental studies and psychology from the University of California, Santa Cruz. From 2000-2002, he served in the Peace Corps as a community development coordinator and soil conservation extensionist in Nepal. During this time,

he worked on a watershed management project sponsored by the Danish government but was evacuated upon the Maoist invasion of his village. Putnam has since returned to Nepal, in the summer of 2003 and the winter of 2004, with a David L. Boren Graduate Fellowship to examine the implications for development programming of the Maoist 'People's War' in Nepal. He is exploring how the civil war/insurgency has impacted international NGOs and development agencies in Nepal as shown in their assessments and programming. Before the Peace Corps, Putnam developed skills in environmental education as the STEP Education Coordinator for the Hurricane Island Outward Bound School in Florida.

Jennifer Keahey ID/MA '05 was awarded a Fulbright Fellowship to study the organic farming movement in Latvia. At the time of independence, organic farming was seen as a way for Latvians to regain control over their land and to rediscover traditional values. Keahey will examine how three major

social sectors in Latvia are influencing the organic farming movement and farmers' decisions: namely, the Ministry of Agriculture, agricultural universities, and agricultural NGOs. She also will explore how joining the European Union affects Latvia's agricultural decisions. During her Fulbright, Keahey will be based at Zemgale, Latvia's biggest agricultural producing region.

Keahey received two bachelor's degrees from the University of Utah, in anthropology and in French. From 1999 to 2002, she served in the Peace Corps in Latvia as a nation-wide teacher-trainer. She developed seminars, emphasized critical thinking training, and wrote a book of American Studies lesson plans, slated for publication. Before entering Clark, Keahey worked for Catholic Community Services Immigration and Refugee Resettlement as a volunteer coordinator and as a facilitator for Afghan women's meetings in Salt Lake City, Utah.

Robyn Fink: Growing Opportunities

A “can do” attitude, a B.S. in advertising from Texas Christian University, bilingual fluency, and a dazzling smile would be a winning combination in any public relations job. But Robyn Fink ID/MA '03 chose a different route. She directed her impressive interpersonal skills and development knowledge toward social change, first in the Peace Corps and now at Winrock, International, based in Washington, D.C.

Fink left her home state of Texas after college graduation in 1996, to serve as a Peace Corps volunteer in Mauritania, West Africa. For two years she worked with local entrepreneurs to establish a regional seed bank and to market inexpensive micro-irrigation pumps and animal plows. Subsequently, she served with the American Refugee Committee (ARC) in Guinea (1999-2000) as a Crisis Corps volunteer and as the Income Generation Program Coordinator.

A desire to find a multi-faceted graduate program led Fink to Clark in 2000.

“I came to Clark because I wanted to combine environment with international development in my studies,” says Fink. “I was interested in IDCE’s grassroots, holistic approach to development.”

At Clark Fink served as research assistant to IDCE Director William Fisher, who is examining the potential effects of the Talo Dam proposed in Mali for Cultural Survival, an NGO based in Cambridge, MA. Fink received a Melder Fellowship to travel to central Mali to conduct a baseline study to assess the impacts of the proposed dam on down-river fishing communities along the Bani River.

She conducted interviews to assess the vulnerability of the fishing community and how external and internal stakeholders were mitigating the impacts. She also tracked interview sites with a global positioning system unit to identify spatial trends. Part of Fink’s report included a hydrological study to determine how long it would take the reser-



Robyn Fink

voir to fill behind the Talo Dam for the first and subsequent years.

In her final report, Fink recommended more research to determine the feasibility for the fishing cooperative to expand and to include alternative income generation practices, such as fish rearing in ponds. She also advocated more collaboration among the local and governmental organizations and with the local fisher people. The results of the work of the Cultural Survival team on which she served were published in the December 2002 issue of *Cultural Survival Quarterly*.

“The IDCE classes in research methods, conflict negotiation, and GIS gave me a good foundation for my research. My directed research with ES&P Professor Downs helped me prepare the hydrological study,” says Fink. “I have a myriad interests—environment, anthropology, development—and under one department, I could call on the IDCE professors’ expertise in these different areas. They spent the time to sit and brainstorm with me, not just give quick answers.”

Fink followed up her Mali research with a year-long internship with Cultural Survival, where she updated their Talo Dam website and helped advise on next steps in their

advocacy campaign to inform downstream communities about the dam.

Currently Fink is program associate with Winrock International’s Agriculture Unit. “The skills gained my GIS courses and the opportunity to work on the Talo Dam project gave me a competitive edge over other applicants for this job,” notes Fink.

Besides providing technical and administrative support for nine Winrock agriculture projects in Ghana, Mali, Senegal, Zambia, Nepal, and Bangladesh, Fink develops proposals for new business opportunities. Her particular focus is on micro-irrigation products, business development systems (BDS) approaches, and high-value agriculture products that are not found year round, such as tomatoes, cabbage, and green bell peppers. The micro-irrigation technologies Fink is promoting include drip irrigation kits and treadle pumps.

“Drip irrigation is proving to be most successful in Mali, where water tables can be as deep as 35 to 45 meters, and water is precious,” notes Fink. “Treadle pumps are interesting because artisans are actually able to fabricate them in country. While motor pumps may be appropriate for larger-scale farmers,” she adds, “they are not productive for the majority of farmers who irrigate relatively small plots.”

In market development, Winrock’s agriculture unit focuses on helping rural farmers shift from subsistence to commercial production by training them to address all components of the supply chain. They address input markets, such as seed supply; agricultural extension needs, such as improved crop spacing; and outputs markets, such as linking smallholders with processors to improve agricultural success.

Robyn Fink has excelled in growing not only agricultural programs for Winrock, but also her own educational opportunities—from classrooms at IDCE, to fishing villages in Mali, to farms in West Africa.

ES&P Students Inventory Greenhouse Gas Emissions

At the invitation of Worcester Mayor Timothy P. Murray and Worcester City Council, **Carissa Williams (ES&P BA/MA '04)** and **Hannah Muller (ES&P/Biology BA '04)**, working with ES&P **Professor Halina Brown**, created the **first comprehensive inventory of major sources of greenhouse gas emissions** in Worcester. The inventory included all vehicles, residential and commercial heating, cooling, electricity, and municipal operations, as well as incineration of the city's solid waste. The purpose of this inventory was to help develop a strategy on how Worcester can reduce greenhouse gas emissions.

The students began the effort when Mayor Murray announced in Fall 2003 that Worcester joined the Cities for Climate Protection Campaign (CCP). CCP provides support and tools to help local governments reduce global warming emissions locally, thus mitigating climate change effects and reducing air pollution. When approached by

Williams and Muller with the proposal to create the inventory, Mayor Murray not only agreed but also asked the students to become his personal advisors on this project.

The mayor was instrumental in motivating city employees to cooperate with Williams and Muller throughout the process of gathering data. Their data was obtained from utility companies, the city treasurer, the city assessor, the purchasing department, the Massachusetts Highway Department, and others.

The student's findings were highlighted on the front page of the Worcester Telegram & Gazette (April 11, 2004). Their research indicated local energy use, trends, and expected emissions from each source using conversion formulas. The students discovered that energy use in Worcester contributes emissions equivalent to about 2.1 million tons of carbon dioxide each year, with each person responsible for about 12 tons of greenhouse gas emissions annually. Williams



Photo courtesy of the Worcester Telegram & Gazette

Hannah Muller (ES&P BA '04) and Carissa Williams (ES&P BA/MA '04) have been working with ES&P Professor Halina Brown and the mayor of Worcester to inventory global warming emissions.

and Muller also made detailed recommendations for Worcester on how to reduce its greenhouse gas emissions in the near future, as part of the Cities for Climate Protection Campaign.

Sara Connorley Awarded a Compton Mentor Fellowship

Sara Connorley (ID/BA '04) was awarded a Compton Mentor Fellowship (\$35,000) to work with Tina Rajaal, the regional director of Catholic AIDS Action in Katutura, Namibia. They will develop outreach programs for HIV/AIDS prevention and education in partnership with Christina Lombardo of AIDS Project Worcester. During a Spring 2003 study abroad semester in Namibia, Connorley worked at the Genade Kindergarten, a daycare center in Katutura for children who are HIV positive and whose parents have died of AIDS or can no longer support them.

There Connorley became interested in documenting the impact of AIDS on orphans and in assisting staff members of Catholic AIDS Action Namibia in their AIDS education efforts in informal urban settlements outside the capital, Windhoek. Her Compton Fellowship will focus on encouraging open

dialogue about HIV/AIDS and facilitating an exchange of information between Catholic AIDS Action Namibia and AIDS Project Worcester.

Connorley is a trained court mediator and a volunteer at AIDS Project Worcester. She says, "I have seen that open communication about AIDS can lead to greater engagement with the challenges that this disease creates and consequently an improved quality of life of people who are HIV positive. As a student of grassroots development, my intention is to identify and promote methods of development that are based in reality. My ultimate goal is to motivate the Namibians I work with to openly communicate about their experiences with HIV/AIDS."



Connorley is the third IDCE student to receive a Compton Mentor Fellowship in three years. In 2002-03, Robyn Long was a Compton Mentor Fellow working in Palestine on Palestine land rights, and in 2003-04, Compton Fellow Kasia Kedzia researched the roles, emerging leadership, and politics of women in Poland.

The Compton Foundation funds projects that address such issues as environmental and sustainable development, conflict resolution and population planning. Its Mentor Fellowships support creativity and commitment of graduating seniors for one year as they focus on "real world" applications and enrich their formal learning through action.