

Healthviews



2005-2006

UIC SCHOOL OF
UNIVERSITY OF ILLINOIS AT CHICAGO PUBLIC HEALTH

PACE SETTERS IN PUBLIC HEALTH

FRANK HU, alumnus

*Adding trans fat information
to food labels to improve
American diets*

JUDITH LEVY, faculty

*Addressing the AIDS
epidemic in Chile, China,
Indonesia and Malawi*

ITALIA ROLLE, student

*Changing healthcare policy
to prevent chronic disease*

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Healthviews

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On the cover: Alumnus Frank Hu's nutrition research led to the recent Food and Drug Administration ruling that all food manufacturers must label the amount of trans fat in their products. His research also helped shape national dietary guidelines and American Heart Association nutritional recommendations. See story, page 10.

MESSAGE FROM THE DEAN



The natural disasters in the Gulf Coast, Guatemala and South Asia have left us with public health problems of unprecedented proportions. The storms and earthquake underscore the need to reconsider poverty and neglect, public health preparedness and the short- and long-term implications of our safety nets from the local to the global levels. If we want to improve our response to disasters in the future, we must learn from the challenges we currently face.

Here in Chicago, the School of Public Health worked with the Department of Public Health and other city agencies to organize a centralized relief program for refugees from the Gulf Coast hurricanes. With access to multiple services such as medications, clothing, schools and housing in one place, refugees had the resources they needed to begin to rebuild their lives. Also, like many of our sister schools, we hosted guest students and faculty from the Tulane University School of Public Health and Tropical Medicine.

We have also seen an outpouring of financial support from our public health community for U.S., Central American and South Asian disaster victims. By partnering with groups representing Mayan weavers, we sold woven pieces of art to help Guatemalans affected by the floods and mudslides from Hurricane Stan. Alumni and students, led by Memoona Hasnain, organized a fundraising dinner to support earthquake relief work in South Asia. We are grateful to those who contributed, and we are eager to help these countries rebuild.

While we continue to work with local and state officials to address emerging health threats like the avian flu, we are employing innovative approaches to deal with ongoing public health challenges in the long term. In this newly designed issue of *Healthviews*, you will read about School of Public Health leaders who are grappling with issues as diverse as the AIDS epidemic, nutrition and diabetes, and unsafe drinking water.

I hope you will share my excitement when reading about our activities that support better health and quality of life. We are truly setting the pace for our shared future in public health.

Sincerely,

Susan C. Scrimshaw, Ph.D.

Dean

SETTING THE AGENDA FOR INTERNATIONAL AIDS RESEARCH



THE FIRST AIDS PATIENT was reported to the National Institutes of Health in June 1981; by August, the Centers for Disease Control and Prevention reported 108 cases in the United States. Five years later that number multiplied 250 times, and the mortality rate was as high as 55 percent.¹ Before

many Americans knew enough to be concerned, the medical and research communities understood they had an epidemic on their hands.

In 1986, Judith Levy was an assistant professor in UIC's School of Public Health, working on a team to conduct a random-dial telephone survey of Chicago-

area residents to establish a base line defining what, if anything, people knew about HIV. When so much attention was on the spread of AIDS among gay men and intravenous drug users, Levy, who has a doctorate in medical sociology, provided Chicago's Department of Public Health with the information it needed to launch an educational campaign for everyone regardless of demographics.

Levy is still at the forefront of AIDS research and prevention efforts as the director of UIC's AIDS International Training & Research Program, a collaboration between UIC's School of Public Health, College of Nursing and several international partners, including ministries of health, AIDS commissions and universities in four countries.

The AITRP is a research training program helping economically disadvantaged countries build their AIDS research, prevention and treatment capacities. Sponsored by the Fogarty International Center at NIH, a competitive grant-application process funds programs at 25 American universities. "The public health importance of the AITRP lies in its contributions to creating the next generation of AIDS researchers in countries where few exist," Levy said. "In some cases, we're training the first Ph.D.s ever in these areas."

Under Levy's direction, the AITRP is engaged in research-training and prevention efforts in Chile, China, Indonesia and Malawi—countries representing different stages and characteristics of the AIDS epidemic. Chile's epidemic is in the nascent stage. The epidemic in China is among the fastest growing in

the world, with the Joint United Nations Programme on HIV/AIDS projecting that the number of people living with AIDS could reach 10 million by 2010. Indonesia has seen a rapid increase in drug abuse in the last decade. Malawi is home to 1 million infected individuals, more than the total number in Europe and North America combined.

Levy and co-director Beverly McElmurry from UIC's College of Nursing designed the AITRP to offer short-, medium- and long-term AIDS research training in the United States and internationally.

International scholars from participating countries can study at UIC for up to six months as an introduction to cutting-edge research in the United States, or U.S. minority scholars can conduct research in one of the participating countries as a preface to AIDS international research.

A shorter program offers one to two weeks of intensive AIDS research training in the United States or three- to 14-day workshops in collaborating countries, each reaching an average of 100 health providers, government agency staff, university faculty and research investigators on topics tailored to the needs of the particular audience.

At the deepest level, the AITRP offers master's and doctoral degrees through UIC's School of Public Health and College of Nursing. For their dissertations, doctoral students conduct research in their home countries and upon graduation return home to work as university faculty or government researchers and policy-makers—positions that can influence the thinking and behaviors of their countries' leaders.

One student is home in Bali studying HIV transmission by fishermen, an issue of specific interest to him because he once worked as a fisherman there. He knows firsthand the fishermen's way of life—returning from strenuous weeks or months at sea, they sell their catch and seek out the company of women, often sex workers. He has awareness of Indonesian culture that even the most respected American researcher or medical professional might never develop.

That's the point Levy emphasizes repeatedly: These countries need their own experts, raised in their own cultures, in order to fight the HIV/AIDS epidemic on all fronts. "These scientists understand their country and culture in a way that we as U.S. investigators cannot," she said. The success of U.S. investigators working on AIDS research internationally hinges on "insights into AIDS and prevention that we couldn't [develop] if we did not have a global partner."

Through one of her pilot studies in Malawi, Levy's team is learning to accomplish goals despite an unimaginable absence of resources.

"We're looking at peer support in villages to help women caregivers of people living with AIDS," she said. "From a nurs-

ing standpoint, we know that AIDS caregivers should wear gloves when handling contaminated bed linens or dressing wounds, but these women have no gloves. We recommend washing your hands frequently to avoid contracting infections, but they don't have soap. We know we should eat certain foods to maintain our health, but Malawi is entering another famine."

Levy's commitment and expertise has been noticed. Two years ago, Tommy Thompson, then secretary of the U.S. Department of Health and Human Services, appointed Levy to the Office of AIDS Research Advisory Council. In this prestigious role, she continues to advise the director of NIH on the AIDS research agenda.

"If we care about public health, we have to care about global public health because the boundaries between countries are artificial, and disease knows no borders," said Levy. ■

For more information on the Fogarty AIDS International Training & Research Program, visit www.uic.edu/sph/AITRP.

¹ Source: National Institutes of Health Web site

THE FORGOTTEN 10 PERCENT

Throughout her career, Levy has shined the spotlight of AIDS research on areas others have overlooked—internationally and in Chicago.

In the 1990s, she recognized that most people assumed that older adults were at virtually no risk for HIV through sex or drug use. She also realized that adults over age 50 were less likely to use condoms because menopause removed fear of unwanted pregnancy.

The facts contradicted public impression. From the beginning of the AIDS epidemic, older adults have made up 10 percent of new cases diagnosed each year. "We call them 'the forgotten 10 percent,'" said Levy.

In response to the needs of this population, Levy helped develop AIDS education programming for older adults in senior centers and public housing, co-produced two short educational films on AIDS and aging, explored using the Internet to

reach older adults, and conducted a study of older minority men who have sex with men. Gaining access to these populations required strategies that ranged from sponsoring bingo games to distributing condoms.

Levy also spent 15 years conducting community-based studies, working out of storefront field stations in Chicago and employing former drug users to recruit active street addicts as study participants.

In one of these studies, AIDS outreach workers recruited active injectors for HIV counseling and testing, and then asked those who tested positive for HIV to identify former sex partners or people with whom they'd shared needles. "We pioneered the use of AIDS outreach staff to conduct voluntary anonymous partner notification, which is essential to stopping the chain of transmission," she said. "That's something of which I am very proud."

The second dean (1978–1983) of UIC's School of Public Health, Viron L. Diefenbach, DDS, MPH, conducted some of the early visionary research that established water fluoridation as an important public health intervention. In recognition of his contribution and to mark the 60th anniversary of the first city in the world fluoridating its drinking water, Caswell Evans, director of UIC's Center for Prevention and Oral Health Services, discusses the importance of oral public health.

What is the significance of water fluoridation?

Water fluoridation has been acknowledged by all of the U.S. surgeons general and by the Centers for Disease Control and Prevention as one of our 10 greatest public health initiatives. Fluoridation has had a profound effect on preventing cavities and is a prevention measure that is one of the longest standing—it's right up there with water chlorination and milk pasteurization.

Most large cities are now fluoridated—Los Angeles just started fluoridating a few years ago. Some smaller communities with well water are not fluoridated. There is, however, progress being made, and communities are starting to bring the issue to the

forefront through public health advocacy initiatives impacting local communities and, in several instances, the state.

What is UIC's role in oral public health?

The closure of two dental schools in Chicago positions UIC's College of Dentistry as, in many regards, the largest provider of Medicaid dental services in the state. In many cases, we are the last option for people needing dentistry services.

At the same time, UIC is in a position to try to fill public health gaps. In April 2005, we sent 18 of our students on two-week rotations in community clinics where they provided care to underserved people. If we weren't in this position, the public's health needs would literally go unmet.

UIC offers a joint dentistry and public health program. What makes this oral public health track unique?

UIC has the only accredited School of Public Health and the only College of Dentistry in northern Illinois. We are also very proud of the fact that our faculty includes the state's only three board-certified specialists in dental public health. Our two schools share similar viewpoints in terms of collaboration. Our oral public health track utilizes the support of each college and the resources and specialists that we have to lend to that collaboration.



Caswell A. Evans Jr., DDS, MPH

What other public health issues are tied to oral health?

There is a growing amount of data looking at gum disease and low birth-weight, pre-term babies. Untreated gum disease is an infection, and the body's response to infection is thought to affect babies just as would an infection in the rest of the body. Some recent research has even begun to indicate that less-advanced gum infection has a lesser effect on babies, and the more advanced the infection the higher the risk for low birth-weight, pre-term babies. The associations have not gotten to the point of documentation, but are attracting a lot of attention. ■

Caswell A. Evans Jr., DDS, MPH, pioneered promoting oral public health. He served as Los Angeles' director of public health programs and services and as executive editor and project director for the first-ever surgeon's general report on oral health. He was the co-chair of the Task Force on Community Preventive Services of the Centers for Disease Control and Prevention.

Currently, he holds an adjunct professorship in the health policy and administration division of UIC's School of Public Health. He is the director of the Center for Prevention and Oral Health Services affiliated with the Institute for Health Research and Policy in the School of Public Health and the associate dean for prevention and public health sciences in the UIC College of Dentistry.

Blowing Bioterrorism Out of the Water

Charles Stack wasn't supposed to be what he is today—an environmental epidemiologist working on an invention that has potentially lifesaving applications in public health and environmental protection. Instead, he planned to be a doctor. To prepare himself for medical school, he enrolled in UIC's School of Public Health graduate program. Shortly thereafter, he abandoned ideas of medical school.

"Professor Janet Holden taught my first environmental science class at UIC, and she lectured about making energy out of waste. I thought that was so cool," Stack said. "She also taught bioterrorism. We were studying dirty bombs in 1979. The program was way ahead of the curve, and I was just pulled in."

Today, Stack is co-founder and vice president of Constant Compliance Inc., a Chicago-based biotech development company creating technology for early detection and containment of poisons in our water and food supplies.

While in graduate school, Stack initiated a collaborative project between UIC's School of Public Health and the environmental biotechnology program at the nearby Illinois Institute of Technology. The project studied the conversion of waste to methane. It was through this venture that he met Prasad Kodukula, an IIT student pursuing a doctorate in environmental engineering. At 26, while still a student, Stack formed Energene Inc., a company dedicated to marketing waste-to-energy technologies. He hired Kodukula, and together they counseled companies—including their first client, Kraft Foods—before their lives took separate directions.

For years Stack worked as an environmental scientist and consultant. Later conversations with Kodukula revealed that they both held patents relating to alternative energy and biotechnology. They decided to collaborate once again and formed Constant Compliance, uniting their common efforts and interests. Shortly thereafter, Sept. 11 happened.

"We were in the environmental business and tied into government chatter," said Stack. "After 9/11, we learned that the U.S. government was looking for technology to safeguard the public, so we were inspired to expand our services into public health and homeland security."

Stack and Kodukula turned their attention to BioCoil®, a patented device Kodukula developed to detect toxic substances in sewers. As the federal government examined the country's vulnerability, "We thought, we can modify what we have to protect the drinking water supply," said Stack.

Based on the technology of BioCoil®, they developed a patent-pending sensor, AquaCoil™, which detects toxins in drinking water supplies and beverages. The AquaCoil™ continuously samples liquid for poisons such as cyanide, nerve gas or ricin. If it detects contamination, the sensor transmits alarms to

On the front lines

cell phones and e-mail addresses of public works directors, government regulators, law enforcement officials—anyone who can take corrective action. Because the sensor offers immediate detection, authorities get the early warning that helps them prevent massive public health emergencies.

"It's the canary in the mine shaft," said Stack.

In January 2005, Constant Compliance received a patent for an addition to the AquaCoil™. A computer-based control system, SCADAR® (Supervisory Control and Data Acquisition with Response) detects poisons in the water and automatically triggers response actions, such as shutting of valves, diversion of flows and isolation of contaminated liquid supplies.



Charles Stack, MPH

"People assume that our government has ways to ensure the safety of our water," said Stack. "But if there was an attack on the water supply today, very likely it wouldn't be detected in time." Stack's invention provides the government with the necessary technology to detect contaminants immediately and ensure that the water supply is protected.

Now Stack's sights are set on getting the technology fully patented, obtaining funding to expand staff and research capacity, and getting the AquaCoil™ into use to defend our water supplies.

"This technology is going to change the way we live the same way safety seals changed our lives after the cyanide killer," Stack said, referring to the 1982 deaths of seven Chicago-area residents who took Tylenol capsules that had been laced with cyanide. "That was a threat we never thought about before it happened. I hope the threat [of drinking water contamination] is never substantiated by an event, but we're public health people; we want prevention." ■

Derailing Chronic Disease

While working as a registered dietitian on a maternity ward in the Bahamas, Italia Rolle was stunned when she saw four newly diagnosed diabetics in one week. “I saw all these women with diabetes and gestational diabetes,” said Rolle. “I could treat them, but I wasn’t qualified to figure out what was causing these problems and fix them.”

The health problems she saw in children were equally disturbing. Rolle treated a 2-year-old boy who weighed 70 pounds and whose legs were so large he could hardly walk. She saw a five-year-old girl who weighed 105 pounds and whose mother sent her to school every day with lunch money for fast food. Rolle was concerned—so many children already forming bad habits and at risk for major health problems.

It was troubling cases like these that motivated Rolle to move out of clinical practice and into the field of public health research where she could find answers to questions surrounding women’s health and chronic disease. In 2000, she enrolled in the doctoral Maternal and Child Health Epidemiology Program in the School of Public Health at UIC.

Chronic diseases such as cardiovascular disease and type 2 diabetes are the major causes of death for women in the United States.¹ Scholars believe these diseases often are preventable because diet, smoking and physical activity play a major role in their development. Unfortunately, most research in prevention looks at older adults and focuses on how to treat and manage the diseases once they appear. Rolle hopes to change that.

For her dissertation, Rolle looked at U.S. women in their childbearing years (ages 18 to 44), a critical time of lifestyle development and practice. Because current research is limited, Rolle’s findings generated much-needed information on how young women place themselves at risk for chronic diseases like type 2 diabetes, hypertension and colon cancer by practicing unhealthy behaviors like smoking and inactivity.

A foundational theme in her research is the theory that unhealthy patterns and risks for chronic disease can start even

Challenging Rolle: The Bahamas’ Health Policy Issues

Rolle’s experiences in the United States and her UIC degree are foundational elements that she will use to tackle health policy issues in the Bahamas. According to Rolle, the Caribbean’s health situation mirrors the United States’ high rates of diabetes, hypertension and kidney failure, which most likely are linked to increased rates of obesity, poor diet, smoking and inactivity.

Making changes in health policy is no easy task—Rolle feels

that there isn’t the same urgency with chronic disease as with infectious disease.

“In the Bahamas, we’ve dealt with infectious diseases like HIV/AIDS and dengue fever, but now we have a whole plethora of chronic diseases overwhelming the system, and we don’t have the infrastructure in place to document what’s going on,” said Rolle.

The Bahamas school system is the first place Rolle hopes to make

her mark by addressing the country’s need for food service regulations. Unlike schools in the United States, most schools in the Bahamas don’t have cafeterias. Instead, they rely on outside vendors to supply food for school children. Often, that vendor is a woman selling fried food and unhealthy snacks from the trunk of her car. Rolle says that kids stock up on candy even before school begins.

“This is a big public health issue,” said Rolle. “I’m interested in changing policy on a national level so that we can make sure we don’t continue to feed our kids like this and to make sure we have governmental policies in place to regulate what is being sold and when. Luckily, we still have physical activity classes in our schools, but I want to make sure they don’t go away.”



before birth. Rolle uses the life-course perspective to show how chronic diseases develop over a lifetime—in utero, infancy, childhood and adulthood. More important, her research supports the need for interventions during the childbearing years to reduce chronic disease later in life.

“Chronic diseases don’t develop overnight,” said Rolle. “There are a lot of factors that add up over the course of your lifetime that can put you at risk. If a child is overfed, that pattern can continue into adulthood and can place that person at higher risk for chronic disease.”

Lifestyle habits and risk factors can be changed with hard work. Rolle hopes her research will shed light on the need for prevention research and programs to improve the quality of life and decrease the burden on the public health and healthcare systems. “In the long run,

we will [be able to] decrease diabetes and hypertension if we can intervene earlier,” said Rolle.

In December, Rolle will receive her doctorate in maternal and child health epidemiology. As she looks toward the future, she aspires to make real change in her home country. She hopes to return home to the Bahamas to work as one of the country’s few epidemiologists in the Bahamas Ministry of Health and to advance the country’s public health policy.

“In the United States we have academia assisting by doing research,” said Rolle. “At home we don’t have that. I strongly believe in evidence-based public health. In order to prove something to policy-makers, we need to have the numbers so we can translate and apply our results and make sure they are not just published in journals.” ■

¹ Source: U.S. Department of Health and Human Services, 2003.

As experts in the field, the School of Public Health and its faculty are information sources in hundreds of print, television and radio news stories each year. From reacting to public health threats to commenting on groundbreaking research to earning recognition from the director of the Centers for Disease Control and Prevention, we are pleased to share with you some of this year's highlights.



First lady Laura Bush and Freddy Martinez, a CeaseFire participant and former gang member, field questions at a community round-table discussion in Logan Square.

VISIT FROM LAURA BUSH

First lady Laura Bush visited with members of the **Chicago Project for Violence Prevention/CeaseFire** program, to congratulate staff on their success in reducing violence in some of Chicago's most troubled neighborhoods. The program's director, **Gary Slutkin**, was a featured speaker in October at a conference on "Helping America's Youth" hosted by Laura Bush in Washington, D.C.

WHOOPING COUGH

Dean Susan Scrimshaw and **Ronald Hershov**, associate professor of epidemiology, were quoted in the *Chicago Tribune* in October 2004, about the increase in whooping cough cases in Illinois and the need for pertussis booster shots.

CAB DRIVERS' HEALTH

In February, School of Public Health researchers surveyed Chicago-area taxicab drivers to assess their risk of cancer, heart disease and stroke. **Funmi Apantaku Onayemi**, regional director of the National Black Leadership Initiative on Cancer, was interviewed on WBBM and WVON radio. The story also appeared on HealthNewsDigest.com, and in the *Chicago Flame* and *UIC News*.



Julie Gerberding (center) is pictured with Daniel H. Winship, M.D., chief, Cook County Bureau of Health Services, Susan C. Scrimshaw, Ph.D., dean, John L. Wilhelm, M.D., MPH, commissioner, Chicago Department of Public Health, and Eric E. Whitaker, M.D., MPH, director, Illinois Department of Public Health.

ASBESTOS AT THE BEACH

Rosemary Sokas, director of the environmental and occupational health sciences division, responded to an asbestos exposure threat at Illinois Beach State Park and discussed a UIC report that found no significant public health hazard. The story ran in the *Chicago Tribune* and *Chicago Sun-Times* and aired on WGN-TV and WBBM radio in June.

HOW LONG WE WILL LIVE

Epidemiology professor **S. Jay Olshansky** and colleagues **Doug Passaro**, **Ronald Hershov** and **Jacob Brody** received international media attention in March for their article in the *New England Journal of Medicine* predicting a decline in



life expectancy in the United States later this century. Local, national and international media outlets reported on the study, which was mentioned on local and national television more than 160 times.

JOB OFFER AT CDC

Commencement keynote speaker **Julie L. Gerberding, M.D., MPH**, director, Centers for Disease Control and Prevention, addressed challenges in public health at the national and global levels. "Skilled leaders are needed," said Gerberding, "to forge partnerships across disciplines and around the world to advance quality of life for all in the future." Gerberding told UIC graduates they had a standing job offer with CDC.

CIRCUMCISION AND HIV IN KENYA

The May 27 issue of the *Chronicle of Higher Education* featured **Robert Bailey**, professor of epidemiology, on his ongoing study of circumcision and its impact on reducing HIV infection in western Kenya.

Theory Into Practice: Research Helps Latino Community Help Itself

The partnership between the School of Public Health and Chicago's Humboldt Park community illustrates what is possible when academic theory meets real life. The result is an innovative research approach that helps create culturally sensitive, mutually beneficial programs.

In 2004, a Sinai Health Systems report brought to light health disparities in Chicago and the need for preventive community-based health interventions. Armed with these findings and grants from the Centers for Disease Control and Prevention, UIC's School of Public Health partnered with the Humboldt Park community representatives to explore how they deploy resources to solve problems like psychological distress, poor educational and economic resources, prevalence of asthma and diabetes, HIV/AIDS and housing shortages.

Researcher Michele Kelley is the driving force behind the collaborative relationship between UIC and the Humboldt Park community, located on Chicago's West Side. "Sinai's report was extremely valuable to us," said Kelley. "We are trying to build on the momentum of that report and fill in some of the gaps, especially on adolescent health."

The neighborhood is interested in improving its ability to heal itself. By engaging with the community, Kelley helps its members identify, think through and answer their own health questions.

"We can't assume we will go into a community and create change," said Kelley. "The community has locally relevant insight and knowledge, and it's my job to try to understand it so that I don't inadvertently get in the way of the learning process we're sharing with each other. Our collaboration advances public health science, and we are learning how to be more effective in reducing and eliminating ethnic disparities in health."

Kelley currently is working on plans for the community's first-ever survey on adolescent health. The survey will identify critical health issues for youth as well as factors that may hold them back from becoming healthy adults.

Working with teens from Café Teatro Batey Urbano, a youth-driven alternative cultural arts and community action



Kelley (right) meets with Alderman Billy Ocasio (left) and José López (center), executive director of the Puerto Rican Cultural Center, to discuss public health issues in Humboldt Park.

organization, Kelley will show them how to conduct their own research and analyze results. Youth in the community have first-hand knowledge about their peers and can provide advice on the survey while helping Kelley determine strategies to engage the interest of families to increase the response rate.

Ultimately the group will convene a youth summit to discuss their findings and develop a health action plan. Kelley foresees the group tapping into Batey Urbano's new radio station as a way to disseminate health information to local teens. By working with the community to conduct their own research, she is one step closer to accomplishing her goal.

José López, a leader in the community and executive director of the Puerto Rican Cultural Center, has watched the partnership

with the School of Public Health encourage community growth.

"The university does not come into the community and impose precepts and concepts but works with us to find ways to deal with health issues," said López. "It not only has created consciousness, but has brought the concept of participatory research to us. It's a process of continuous dialogue." ■

"The university does not come into the community and impose precepts and concepts but works with us to find ways to deal with health issues."

Influencing America's Eating Habits

Walk down the aisle of any grocery store and you'll see the impact of Frank Hu's groundbreaking research in diet and nutrition. The work of Hu and his colleagues led to the recent Food and Drug Administration ruling that, starting in January 2006, all food manufacturers must label the amount of trans fat in their products. His research also helped shape national dietary guidelines and American Heart Association nutritional recommendations.

UIC alumnus and China native Frank Hu, M.D., Ph.D., MPH, is an associate professor of nutrition and epidemiology at the Harvard School of Public Health and director of the Boston Obesity Nutrition Research Center, funded by the Epidemiology Core of the National Institutes of Health. Hu has been on the cutting edge of nutrition research by conducting studies looking at how genetics, lifestyle and diet affect risks for diabetes and cardiovascular disease. One of his most influential studies was published in 1997 in the *New England Journal of Medicine* and has influenced directly today's dietary guidelines. Prior to Hu's research, the USDA and AHA recommended a low-fat diet stressing that all fats are unhealthy, and intake should be limited. Hu's findings, however, showed what we all now understand: It's not the quantity of fat that predisposes one to coronary heart disease, but the types of fat that increase or reduce risks.

“... the types of fat are more important than the total amount of fat in determining risk of heart disease and diabetes.”



So how did a medical doctor trained in Wuhan, China, become a public health champion changing eating habits in the United States?

Hu's firsthand observations in his native China sparked his interest in preventing cardiovascular disease. He saw that as economic developments dramatically improved the standard of living in China, cardiovascular disease began to emerge. “The standard of living has changed with shifts in patterns of diet and lifestyle,” said Hu. “When people have more money and more food, they become more sedentary by driving cars rather than riding bicycles. In the 1970s, people were starving; now, over-eating and obesity has become a problem. I thought the only way to deal with major chronic disease was through population-based preventive approaches. It's not just one person you have to treat, it's the whole population.”

For Hu, it was important to “first understand the risk factors that were out there and then determine the steps to take to reduce them.” In 1988, he started working at the National Institute of Health Education in Beijing, China, where he spent several years conducting prevention research. His shift from medicine to population-based research started with a community-based research project for which he measured weights, heights and blood pressures of patients in community clinics.

He was hoping to identify ways to reduce cardiovascular disease risk factors such as unhealthy diet and high cholesterol.

While working in Beijing, he was inspired by the prevention research by Brian R. Flay, D.Phil., professor of community health sciences and director of the Health Research and Policy Centers (now the Institute for Health Research and Policy) at UIC. So he decided to pursue an advanced degree in epidemiology at UIC where he found a mentor and friend in Flay. “[Brian gave me] the kind of experience that you don't get from a classroom lecture—the insight of senior researchers and working with the country's top-notch statisticians turned out to be extremely useful in my career.”

After graduating from UIC in 1996 with his doctorate in epidemiology, he moved to Boston to work as a research fellow alongside his mentor Walter Willett, focusing on nutrition epidemiology at the Harvard School of Public Health. It was there that he developed an interest in nutrition, diabetes and coronary heart disease.

According to Hu, scientists first identified the adverse health effects of trans fat in the early 1990s and saw that trans fat not only increased LDL (bad) cholesterol but decreased HDL (good) cholesterol. Hu was interested in adding to the literature by looking at the effects of different types of fats on heart disease and type 2 diabetes. He analyzed data from the Nurses' Health Study, one of the largest investigations into the risk factors for major chronic diseases in women, and found that the types of fat are more important than the total amount of fat in determining risk of heart disease and diabetes.

“We found that increased consumption of trans fat is a major factor for coronary heart disease,” said Hu. “Trans fat is

Groundbreaking Research

Fighting trans fat is just part of Hu's crusade. He found that eating nuts reduces the risk of coronary heart disease in women because they contain mostly healthy fats and other beneficial nutrients. In 1999, he found that linolenic acid, an omega-3 fatty acid found in some vegetable oils and salad dressings, may protect against fatal heart attacks. That same year he published a paper in the *Journal of the American Medical Association* regarding the protective effects of moderate and vigorous exercise against type 2 diabetes. In 2001, he published another groundbreaking paper in the *New England Journal of Medicine* showing that the vast majority of type 2 diabetes could be prevented through moderate diet and lifestyle changes. His more recent research revealed how genetic and nutritional factors interact with each other to cause diabetes and heart disease. He also is conducting research on nutrition, obesity and cardiovascular risk factors in China.

“Diet and lifestyle are rapidly changing in China,” said Hu. “There is a narrow window of opportunity to intervene before obesity and heart disease become a full-blown epidemic there.”

even worse than saturated fat in terms of raising risk of heart disease.” Hu's findings were instrumental in the FDA's ruling that all food labels now must specify the amount of trans fat along with saturated fat and dietary cholesterol.

By adding trans fat to the Nutrition Facts panel, consumers now know for the first time how much of all three—saturated fat, trans fat and cholesterol—are in the foods they choose. Some food manufacturers already have started labeling their foods in anticipation of the January deadline. Also, the USDA has revisited the dietary guidelines, incorporating recommendations about choosing foods low in saturated fat, trans fat and cholesterol as part of a healthy diet.

The FDA estimates that by January 2009, trans fat labeling will prevent from 600 to 1,200 cases of coronary heart disease and 250 to 500 deaths each year. Based on this estimate, this rule will realize a cost savings of \$900 million to \$1.8 billion per year in medical costs and lost productivity, not to mention incalculable pain and suffering.¹ ■

¹ Source: www.cfsan.fda.gov/~dms/qatrans2.html

WHO WE ARE

UIC's School of Public Health is the only accredited school of its kind in Illinois, Wisconsin and Indiana. We are experiencing exciting growth—we hired nine new faculty, grew our endowment to nearly \$1 million and increased our National Institutes of Health funding by 25 percent.

The school is part of the largest university in the Chicago area. It is one of 15 colleges that together rank among the nation's top 50 universities in federal research funding. The UIC student body is recognized as one of the nation's most diverse. With students from more than 20 countries, the School of Public Health shares that distinction. UIC and the School of Public Health are recognized for their research strength, educational excellence and commitment to improving the quality of life.

UIC's hallmark is the Great Cities Commitment through which faculty, staff and students engage in hundreds of programs with community, corporate, government and civic partners to improve the quality of life in Chicago and in other metropolitan areas around the world. Located in the heart of Chicago, the School of Public Health provides opportunities for its faculty, staff and students to experience every aspect of public health from inner-city violence prevention to the international AIDS pandemic.

Established in 1970, the fully accredited School of Public Health offers the following degrees:

- Master of Healthcare Administration
- Master of Public Health
- Master of Science
- Doctor of Philosophy
- Doctor of Public Health

UIC's School of Public Health is recognized for excellence in the following areas:

- Community health
- Emergency response preparedness
- Epidemiology and quantitative methods
- Healthy aging
- Maternal and child health
- Environmental and occupational health and safety
- Public health practice and leadership
- Prevention research in HIV/AIDS, violence, substance abuse and tobacco control

Centers, Institutes and Service Programs

UIC's School of Public Health faculty are involved in a range of cutting-edge research and service projects funded from federal, state and private sources. These initiatives contribute resources and provide assistance to local communities and programs around the world while providing opportunities for student learning, collaboration and discovery. For a complete list of our centers, institutes and service programs, see page 24.

NOTES FROM THE DIVISIONS

The hurricanes and earthquake experienced on the Gulf Coast and in South Asia and Guatemala exposed our vulnerabilities as communities, families and individuals. The storms also revealed changes we must make to ensure that we are instilling in our students the expertise they need to address future public health crises we may experience here and around the globe.

After the national disasters, our division directors reflected on both our history of achievement and our innovative approaches to advances in public health practice. We will continue to ensure that our public health work force and infrastructures are supported and prepared to protect human life and health.

Community Health Sciences Division

Bernard J. Turnock, M.D., MPH



A year before Sept. 11, 2001, we created the Illinois Public Health Preparedness Center to enhance the readiness of the public health work force in responding to crises. The Centers for Disease Control and Prevention recently committed to another year of \$1.1 million in funding to continue the work of the center.

For more than two decades, our Maternal and Child Health Program has produced leaders working to improve the health of mothers and their families. Among 12 national programs competing for Maternal and Child Health Bureau funding, ours ranked among the highest.

We continue to evolve our division to meet the growing needs of our students and have added a new concentration in survey research, the only program of its kind tailored to health personnel serving Chicago and the Illinois region.

Reflecting our commitment to community-based organizations, we launched the Naomi Morris Collaborative for Community Health Assessment and Evaluation. Responding to community requests for assessment and evaluation, the collaborative helps local organizations improve their own health service programs.

As I assume leadership as acting director of the division, I thank Noel Chávez for her work as interim director over the past two years. Her leadership and commitment have maintained our division on a path of excellence, and I hope to continue that tradition.

Read about our new faculty members on page 20.

Environmental and Occupational Health Sciences Division

Rosemary Sokas, M.D., MOH, FACP



Those of us in environmental and occupational health sciences have long, hard questions to ask ourselves and others about the path from knowledge to policy. We need to address questions about global warming, wetland preservation, disaster preparedness and environmental justice.

On the occupational health front, the challenges are evident also. In 2004, for the first time in years, the United States' occupational mortality numbers increased, and the mortality rates for immigrant Latino workers climbed again after a two-year pause. To address these concerns, four of our faculty members were appointed to Gov. Blagojevich's task force looking at hazards threatening Illinois' immigrant workers and helping provide recommendations on how to prevent these threats. These recommendations will guide the implementation of programs to improve our state's response to a vulnerable population that works in society's most dangerous jobs.

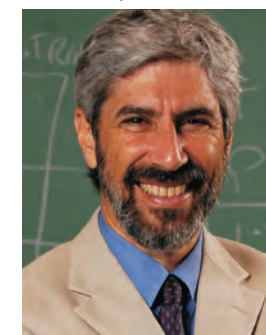
Internationally, we collaborated with community organizations to address global pollution and to promote Health Care Without Harm, an international coalition of 442 organizations in 52 countries working to transform the healthcare industry.

And here at home, we developed the school's first course in global health preparing students to address international public health issues, including pollution and industrial hygiene.

As we begin to deal with our environmental and occupational shortcomings, our division will continue to set the pace by addressing issues of health and safety for people in Illinois and around the world.

Epidemiology and Biostatistics Division

Leslie T. Stayner, Ph.D.



Following the Hurricane Katrina disaster, we quickly offered our expertise to hurricane evacuees who moved to Chicago. Our 24-hour EpiCorps, a team of faculty and student volunteers with a wide variety of backgrounds and areas of expertise, responded instantly when the Chicago Department of Public Health asked us to assess the health

needs of evacuees and evaluate how their needs were met. We are proud to be a resource for the local and state health departments and we will work to continue that tradition of service to the community.

Looking to the future, we are expanding our division in the area of genetic epidemiology and will build on our already successful infectious disease epidemiology program. We are creating a Center for Population Genetics whose researchers will investigate genetic factors in the causation of diseases such as asthma, hypertension, diabetes, nicotine addiction and osteoporosis. Our Quantitative Biomedical Sciences Core will work to meet the needs of multidisciplinary research initiatives at the campus level. To ensure these new initiatives are successful, we continue to hire faculty who contribute to our division's achievements and help strengthen our programs.

I look forward to watching our division make further strides and reporting our future successes to you in the coming year.

Health Policy and Administration Division

Jack Zwanziger, Ph.D.



We focus our sights on ensuring our health policy and administration division prepares students to become the nation's next leaders in transforming health policy while balancing ethical, economic and real-world concerns.

To do this, we clarified and strengthened our master's in public health program by expanding its focus in the public sector. Students now can explore career interests in public health agencies or advocacy groups. We anticipate incorporating a similar restructuring process in our doctoral programs.

Our new master's in healthcare administration prepares managers to meet the growing needs of large health service organizations. And we have the country's first fully online master's in public health informatics degree preparing practitioners to address public health challenges of the 21st century. So far, our program has reached students in Botswana, Canada, Ghana, Great Britain, India, Kenya, Mali, Mexico, Pakistan, South Africa, Yemen, Zambia and 18 U.S. states.

We developed a clinical research training program in collaboration with UIC's colleges of Medicine, Nursing, Pharmacy, Dentistry and Applied Health Sciences, and the University of Illinois Medical Center at Chicago. With the support of a \$1.5 million grant from the National Institutes of Health, the master's program will provide clinicians with training in clinical research.

As the United States sees increasing demands on its healthcare system, the need for leaders skilled in health policy development and health services administration is escalating. Our division is playing a significant role in producing those leaders to spearhead local, regional and national efforts.



Dear friends,

Conversations with alumni, donors and friends bring to light new opportunities to support our students as they prepare for careers in public health.

Based on your feedback, we recently launched a Society for Women in Public Health Leadership. Dedicated to addressing challenges facing women in health professions, the group is also exploring avenues to connect current UIC students with alumnae. If you are interested in mentoring a student or participating in this group, please let me know.

We also heard from our public health community after the tragic loss of Doug Passaro. An associate professor of epidemiology, Doug established our EpiCorps to encourage students to volunteer with state and city health departments to gain experience in emergency response. To ensure that Doug's legacy will carry on, we created the Douglas Passaro Scholarship Fund. Outstanding epidemiology students will have the resources they need to pursue their studies and conduct their own research.

On the following pages, you'll see how gifts to the School of Public Health make a difference to the quality of programs, scholarships and resources we offer our students. If you have ideas on how you would like to contribute to UIC's School of Public Health, please feel free to contact me.

Your commitment and support today are helping to prepare tomorrow's practitioners and professionals, and we are grateful. I look forward to hearing from you.

Sincerely,

Susan L. Mennenga
 Assistant Dean for Development
 (312) 355-4501
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We would like to acknowledge the generosity of the individuals, corporations and foundations whose financial support has benefited the School of Public Health at UIC. We are grateful for your contributions.

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SAMUEL EPSTEIN, M.D., Professor Emeritus, Environmental and Occupational Health Sciences
 The Albert Schweitzer World Academy of Medicine honored Epstein with its Grand Gold Medal for his pioneering contributions to cancer prevention. Epstein's lifelong work focuses on preventing exposure to carcinogens in air, water, food and the workplace through education and influencing government policies.

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ANNANN HONG, Ph.D.

Hong received UIC's School of Public Health Alan W. Donaldson Memorial Award for her academic excellence, leadership and community service. While at UIC, Hong worked on improving student life and promoted civic responsibility among Chicago youth. She also played leadership roles with the American College Health Association and the U.S. Department of Education's Safe and Drug-Free Schools and Communities Program.

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ROSEMARY SOKAS, M.D., MOH, FACP, Division Director, Environmental and Occupational Health Sciences

The National Institute for Occupational Safety and Health honored Sokas with the James P. Keogh Award for her commitment to improving the health of workers, particularly among underserved populations, as well as her dedication to training medical professionals in occupational medicine.



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OLIVIA ROANHORSE, Graduate Student, Health Policy and Administration

The Chicago Area Schweitzer Fellows Program selected Roanhorse as a Schweitzer Fellow. Based on the fellowship requirements, Roanhorse has committed a year of service and at least 200 hours with the Indian Health Service to improve breast health education among women.

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Of the elements that make up our school, the people are the most important. Without the talent, leadership and perseverance of our faculty, staff and students, the School of Public Health could not maintain its great work.

This year, we welcomed new faculty who undoubtedly will leave their own mark on the university. The year was also marked by significant losses. We wish our retired colleagues well. We warmly remember those we have lost: Herbert Hazelkorn, Doug Passaro and Mabel Ross.

New Faculty Members

Craig Beam, Ph.D., is a professor of biostatistics in the epidemiology and biostatistics division, director of the Quantitative Biomedical Sciences Core and director of the Biostatistics Core of the Cancer Center. Beam received his master's and doctoral degrees in statistics from Iowa State University. He has been principal investigator of several studies funded by grants from the National Cancer Institute, Department of Defense and American Cancer Society. His area of research is in prognostic and diagnostic markers, bioinformatics and translational research.

Elizabeth Ann Calhoun, Ph.D., is an associate professor in the health policy and administration division. She is an experienced health services researcher with expertise in clinical outcomes for urologic diseases and cancer, as well as for psychiatric and substance abuse disorders. Other research includes economic and organizational analysis. Calhoun has had numerous projects related to improving the health status of minority populations and quantifying the burden of disease on the patient and on society. She is the principal investigator of a REACH 2010 project working to improve breast and cervical cancer

screening rates for African-American and Hispanic women on the South and West sides of Chicago. Calhoun earned her master's in education in rehabilitation counseling at the University of Pittsburgh and her doctorate in health administration at the University of South Carolina.

Deborah Dobrez, Ph.D., is an assistant professor in the health policy and administration division. Dobrez earned her master's and doctoral degrees in economics from Indiana University, with her dissertation on "Access to Care and Optimal Treatment Choices for Mental Health Disorders in the United States." Focusing on health services and outcomes research, Dobrez has worked extensively on developing approaches to measuring health-related quality of life. She conducted cost-effectiveness analyses in several clinical areas and evaluated the effects of Medicare reimbursement methodology for rehabilitative services.

Marian L. Fitzgibbon, Ph.D., is a professor in the health policy and administration division. Fitzgibbon is recognized for her research on preventive interventions conducted most recently as professor in the department of psychiatry and behavioral sciences at Northwestern University Feinberg School of Medicine. She served as principal

investigator on studies on cancer and obesity prevention, with a particular focus on minority populations. At UIC, Fitzgibbon's research will complement research in the Institute of Health Research and Policy's Program for Cancer Control and Population Science as well as community-based initiatives. Fitzgibbon's primary appointments are with the UIC department of medicine and the West Side Veterans Administration Hospital, where she will head the health services research groups to enhance the growth of health services research in each organization. Fitzgibbon received her master's in psychology and her doctorate in clinical psychology at Long Island University.

Patrick Lenihan, Ph.D., MUP, is a clinical associate professor in the community health sciences division. Lenihan holds a doctorate in public policy and a master's degree in urban planning with a specialization in health services planning from UIC. Former deputy health commissioner for the City of Chicago, he currently serves as executive director of the Northern Illinois Public Health Consortium. Lenihan worked for more than 25 years in private and public sector

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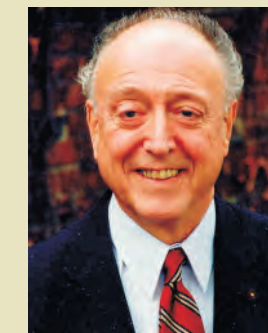
Faculty Retirements

Jacob A. Brody, M.D.

Jacob A. Brody served as dean of the School of Public Health from 1985 to 1992. Under his guidance, the school increased its research funding 700 percent and developed the national model for teaching and implementing public health practice.

Brody attained an international reputation as a scholar and scientist, and served as a physician, researcher, epidemiologist and administrator for the Centers for Disease Control and Prevention and the National Institutes of Health from 1957 to 1985. He authored more than 250 scientific publications and books, including seminal studies on measles and rubella vaccines, neurodegenerative diseases in the United States and Guam, the relationship between alcohol and chronic diseases, and, recently, trends and projections concerning the health of the elderly. His concept of prevention by delay of onset for late-life diseases and conditions is universally accepted.

Brody created the federal government's epidemiologic program for the study of alcohol abuse and alcoholism, and also founded the government's program on aging. He was named president of the American Epidemiologic Society in 1980 and the following year was



presented the Distinguished Service Medal of the U.S. Public Health Service. He was cited as the organization's most decorated member, having received the service's Hazardous Duty Award, Foreign Duty Award and Special Assignment Award. The National Multiple Sclerosis Society gave him its highest honor, the Hope Chest Award, and in 2000 he received the prestigious Lillienfeld Award for outstanding contributions, leadership and research in epidemiology. Brody earned his doctorate of medicine at The State University of New York.

Naomi M. Morris, M.D., MPH, FAAP, FACPM

For three decades, Morris was a nationally recognized researcher, leader and advocate in the field of maternal and child health. She served as director of the community health sciences division, founder and director of the Maternal and Child Health Program, and professor. Her contributions significantly advanced academic and community collaborations to improve community health.

Named director of the community health sciences division in 1980, Morris laid a firm foundation for the division's future success by recruiting outstanding faculty, developing innovative educational programs and attracting talented students.

In 1983, she successfully sought funding from the federal Maternal and Child Health Bureau to establish the Maternal and Child Health Program, which provides graduate leadership education for individuals pursuing careers in the field. Recognized as one of the foremost programs in the nation, it has achieved federal support every year since its inception.

Morris' contributions through her research, service and teaching have been recognized with major honors, including the American Public Health Association's Martha May Eliot Award and the March of Dimes Birth Defects Foundation's Jonas Salk Lifetime Achievement Award.

Morris earned her doctorate of medicine at the University of Colorado School of Medicine and her master's in public health at the Harvard School of Public Health.



In Memoriam

Herbert Hazelkorn, DDS, Ph.D.

December 7, 2004

Herbert Hazelkorn, associate professor emeritus, was an outstanding advocate and spokesperson underscoring the role oral health plays in the



field of public health, especially as it affects underserved populations.

After completing his doctorate of dental surgery at the

College of Dentistry at UIC in 1949, he resumed his studies at the age of 56 and went on to earn his doctorate in health policy and administration at UIC's School of Public Health. Hazelkorn's studies were recognized by the Alan W.

Donaldson Memorial Award, which is presented to one graduating student selected for academic excellence, quality of leadership and community service. He was elected to the Delta Omega Society, the national honorary public health fraternity established to recognize attainment in the field.

After joining the faculty of the health resources management (now health policy and administration) division in 1984, Hazelkorn led

the development of the Dental Public Health Program, serving as the program's director in addition to carrying out his teaching responsibilities. He also supported alumni activities as an active member and vice president of the School of Public Health Alumni Association. Hazelkorn was a valued colleague to School of Public Health faculty members and a caring teacher and mentor to students at the school.

Douglas Passaro, M.D., MPH

April 18, 2005

Doug Passaro, associate professor of epidemiology, was at the forefront of state and city efforts to prepare the public health system for rapid response to terrorist or biohazard events.

Passaro began work at the School of Public Health the week before the World Trade Center attacks. Following the outbreak of mail-associated anthrax in 2002, he served briefly as the bioter-



rism coordinator for the Illinois Department of Public Health.

He subsequently set up a partnership with IDPH to allow UIC faculty and stu-

dents to provide the department with services and technical expertise related to preparedness and response for bioterrorism and emerging infectious diseases.

In May 2003, Passaro led a team of School of Public Health faculty and students participating in the largest terrorism exercise ever conducted

in the United States. The congressionally mandated disaster drill tested response capabilities at the city, county and state levels, and identified system gaps.

Dean Susan C. Scrimshaw said, "Doug Passaro was a superb educator, colleague and friend. He cared passionately about giving our students the skills and experience they need to serve the public. He was a rapidly rising star researcher, bringing great expertise to our faculty as well as to public health in Illinois."

Passaro earned his master's in public health at the University of California, Berkeley, and his doctorate of medicine at Northwestern University Feinberg School of Medicine.

Mabel Ross, M.D., MPH

March 31, 2004

The School of Public Health recently learned of the death of Mabel Ross. We fondly remember her as one of the school's founding faculty members. Ross was a professor of healthcare services and contributed significantly to the early development of the health resources management division, now the health policy and administration division. Following her retirement, she continued as an active advisor, friend and supporter of the school. Ross left a generous gift establishing a trust in her name to benefit the school and its students.

New Faculty Members

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health-related organizations directing emergency preparedness, research, information systems, and analysis of regional and local health issues. He specializes in assisting organizations in making and implementing strategic decisions, and has been a consultant to a variety of organizations, including health-care providers, academic institutions, nonprofit and government agencies, and trade and membership associations.

Li C. Liu, Ph.D., is an assistant professor of biostatistics in the epidemiology and biostatistics division. Liu received her master's degree in applied mathematics from the University of Minnesota Duluth and her doctorate in biostatistics from UIC. For two years she worked as a postdoctoral research associate in the Quantitative Methods Support Core for Biomedical Researchers in UIC's Institute for Health Research and Policy. Her primary research interest is longitudinal and multi-level models for categorical data, Item Response Theory models and mediation analysis. Her teaching interests include regression, experimental design and categorical and longitudinal data analysis.

Scott A. Venners, Ph.D., is an assistant research professor of epidemiology in the Program for Population Genetics of the epidemiology and biostatistics division. Venners received his master's in public health and doctorate in environmental epidemiology from Tulane University. He worked as a postdoctoral research associate in the Program for Population Genetics in the Harvard School of Public Health for four years. His primary research interest is gene-environment interactions and the effects of environmental chemical exposures on reproductive health in men and women.

Daniel H. Winship, M.D., is a clinical professor in the health policy and administration division. Winship has had a distinguished career, including senior management positions in the Veterans Administration and service as dean of the Stritch School of Medicine at Loyola University Chicago and vice chancellor for health affairs at the University of Missouri. As the current chief of the Cook County Bureau of Health Services, Winship leads the organization making an impact on the health of Chicago's most vulnerable populations. At UIC, Winship will teach health services management as well as mentor students in the field. Winship received his doctorate of medicine from the University of Texas Medical Branch in Galveston.

Xiping Xu, M.D., Ph.D., M.S., is a professor and director of the Center for Population Genetics in the epidemiology and biostatistics division. Xu received his doctorate of medicine from Anhui Medical University in China, his doctorate in epidemiology from the University of Tsukuba, Japan, and his master's degree in biostatistics from the Harvard School of Public Health. Xu's research interest is in the field of genetic epidemiology and the role of genetic and environmental factors on complex diseases. He currently is conducting research on the genetic component of chronic diseases such as asthma, diabetes, COPD, hypertension, nicotine addiction, obesity, cardiovascular disease and cancer. Another major research interest of Xu's is in occupational and environmental epidemiology. He and his colleagues have been conducting several large studies on reproductive health in petrochemical industries, textile mills and agricultural areas to assess the effects of occupational exposure on reproductive health of both women and their spouses to dusts, gases, fumes, petroleum chemicals, metals, ergonomic factors and pesticides. His research uses biomarkers in the assessments of exposure and health outcomes.

For information on our entire faculty, visit our Web site at www.uic.edu/sph/faculty.

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Following are the school's centers, institutes and service programs. Please visit their Web sites for detailed information.

Air Pollution Training Institute
www.uic.edu/sph/glakes/ce/airpollution/air_pollution_distance.htm

Center for the Advancement of Distance Education
www.uic.edu/sph/cade

Center for Public Health Practice
www.uic.edu/sph/cph

Chicago Project for Violence Prevention/CeaseFire
www.ceasefirechicago.org

Community Asthma Prevention Program
www.uic.edu/sph/research_community_asthma.htm

Community Outreach Intervention Projects
www.uic.edu/sph/research_community_coip.htm

Diversity in Public Health Programs
www.uic.edu/sph/diversity

Fogarty AIDS International Training & Research Program
www.uic.edu/sph/AITRP

Great Lakes Centers for Occupational and Environmental Safety and Health
www.uic.edu/sph/glakes

Institute for Health Research and Policy
www.uic.edu/depts/ovcr/hrpc

International Center for Health Leadership Development
www.uic.edu/sph/healthleaders

National Black Leadership Initiative on Cancer
www.NBLIC.org

Public Health and Corrections Program
www.uic.edu/sph/research_community_corrections.htm

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www.uic.edu/sph/research_community_quantcore.htm

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Pamela Ippoliti
Director of Communications

Editor
Liz Zweigle Yee
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Lisa Aaronson
Heather Boggs
Elizabeth Harmon
Margaret McCarthy

Design
Kimberly Smith Gnat

Photography
Roberta Dupuis-Devlin
Susan C. Scrimshaw, Ph.D.

All inquiries should be addressed to:
Office of Development (MC 923)
School of Public Health
University of Illinois at Chicago
1603 W. Taylor St.
Chicago, IL 60612-4394
Phone: (312) 996-2139
Fax: (312) 996-1374
ippoliti@uic.edu

Office of Development
Susan L. Mennenga
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