When it comes to life-changing research and education, you need to think more than big.
the Bigger Picture

Annual Report 2009-10
That’s why we don’t just focus on the big picture.
The Temple — Tifereth Israel has sat as a majestic cornerstone of University Circle for more than 80 years, and has been noted on the National Register of Historic Places. Yet the maintenance needs of the 100,000-square-foot sanctuary were great for a congregation that used the space only occasionally.

Case Western Reserve University’s active performing arts programs cater to more than 1,000 music, theater and dance students in any given semester, yet they lack a sizeable practice and performance space to suit their needs.

The solution? A unique partnership—catalyzed by a $12 million gift from the Maltz Family Foundation of the Jewish Federation of Cleveland—has plans to create the Milton and Tamar Maltz Performing Arts Center at The Temple — Tifereth Israel. As soon as overall fundraising is complete, the university will renovate the historic space to function as a performing arts venue for Case Western Reserve students. At the same time, the architecture of the Temple will be preserved to keep it usable and available to the congregation for use on high holy days and other significant occasions. Watch the innovative story of collaboration—and see how the partnership could serve as a national model for historic preservation—at case.edu/biggerpicture.
Fast-food burgers and fries. Chips and cola from the corner store. A candy bar from a vending machine. For the homes and schools of inner-city neighborhoods, these are typical food offerings.

But what if the local corner store sold fresh fruits and vegetables? What if a neighborhood garden grew them? What if nutritional experts and researchers worked with local communities to address their food needs and developed personalized solutions for healthy food access and education? That’s the goal of the core project of the new Prevention Research Center for Healthy Neighborhoods at Case Western Reserve. A team led by sociology associate professor Jessica Kelley-Moore is engaging community residents in an effort to address the healthy food shortages of inner-city neighborhoods. Watch how they are changing the entire food landscape in these areas at case.edu/biggerpicture.
Did satellite dish purchased off Craigslist? Check.

Seventy-five feet of aluminum-coated Mylar? Check.

Four aerospace and mechanical engineering students determined to make the first inexpensive solar furnace? Check.

With the right supplies on hand, engineering student Robert Abban and fellow classmates Jesse Lee, Chris Lau and Jason Presutti were able to meet their goal for their senior capstone project. Their 10-foot-wide solar-furnace prototype was able to reach a high temperature of 626 degrees Celsius (1,158 F)—even in Cleveland springtime—inside the brick solar furnace suspended at the center of the parabolic dish, where sunlight is reflected and concentrated. Watch how their cost-efficient and environmentally friendly technology could serve as a stove, a water purifier or even an electrical generator in developing countries at case.edu/biggerpicture.
A minor, unassuming lesion on the inside of your mouth. Odds are, it’s nothing. But in a small percentage of cases, it’s the beginning stages of oral cancer—the time when treatment would lead to the most successful results. But to make the diagnosis, a biopsy is necessary—an invasive and costly procedure that isn’t currently a practical response in these cases.

But a research team led by biological sciences assistant professor Ge Jin has discovered that a naturally occurring protein—human beta defensin-3—could serve as a red flag for this early stage of oral cancer. Watch how the presence of the protein—detected from the simple swipe of a cotton swab during a routine visit to your dentist’s office—could lead to life-saving treatment at case.edu/biggerpicture.
Many American kids get a piggy bank before their first birthdays. The notion of saving money—and having a secure place like a bank in which to do so—can easily be taken for granted in our society.

Yet for villagers in the South Asian country of Nepal, the idea of a bank holding onto their money was one almost entirely foreign. So when economics assistant professor Silvia Prina was approached to help introduce financial assistance programs for Nepali villagers, she first assessed their needs and then started simply with a unique savings program that efficiently brought the bank to the villages. Watch her story to see how the savings program took off—and how it could be a model for programs in other developing countries—at case.edu/biggerpicture.
An Essential Addition to Police Officers’ Tool Belts

The patrol officers of the Cuyahoga Metropolitan Housing Authority (CMHA) Police Department are prepared to respond immediately to any potential criminal activity within the housing estates. What they frequently find on calls that bring them into homes, however, is not criminal activity, but families in potential need of social-service help.

Partnering with social-work professor Mark Singer and Mental Health Services, the CMHA police developed a needed tool to use in these instances. Their Police Assisted Referral Program provides officers with the ability to refer children and families to Mental Health Services for education, screening and treatment. Watch how the program provides officers with a much-needed option other than arrest or walk away—and learn how the program could assist police departments nationwide—at case.edu/biggerpicture.
A new center, led by Shirley Moore (top left), promotes inclusion of people with all abilities in research. The country’s oldest health-law program, directed by Maxwell Mehlman (top right), addresses the tricky intersections of medicine and the law in the 21st century. A national wrestling champion, Isaac Dukes (bottom right), won his title while on the mend from a serious injury. A start-up company, founded by Case Western Reserve graduates Eric Neuman, Marc Plotkin and John Knific (bottom left), takes the music school audition process to cyberspace. See these stories—and even more of the bigger picture—at case.edu/biggerpicture.
Financial and Statistical Highlights

**Operations***
- Total operating surplus: $2.2 million
- Total operating revenue: $903.8 million
- Total operating expense: $903.4 million
- Endowment funds (market value, June 30, 2010): $1,519 million
- Gifts and pledges from private sources: $115.5 million

**Research**
- Sponsored research and training revenue: $385.7 million

**Technology Transfer**
- Total licenses (to date): 250
- Total licensing revenues: $14.3 million

**Degrees Awarded**
- Undergraduate: 978
- Masters: 989
- PhDs: 211
- Other Doctorates (ID, MD, DMD, DMgt): 570

**Degrees by School**
- Case School of Engineering: 476
- College of Arts and Sciences: 678
- Frances Payne Bolton School of Nursing: 228
- Mandel School of Applied Social Sciences: 139
- School of Dental Medicine: 86
- School of Law: 275
- School of Medicine: 390
- Weatherhead School of Management: 476

**Enrollment (Fall 2010)**
- Undergraduate: 4,227
- Graduate and Professional: 9,610
- States represented: 50
- Countries represented: 92

**Campus**
- Faculty (full-time): 2,745
- Staff (full-time and part-time): 3,217
- Campus Size: 155 acres

**Alumni**
- Total Alumni: 107,150
- Nobel Laureates: 15

* Revenue, expense and operating surplus (deficit) figures per Statement of Operations (unaudited)
Endowment funds figure per university financial statements
Gifts and pledges figure per internal accounting (unaudited)
All figures rounded

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**Total operating revenues and expenses**
Fiscal years 2007-2010

**Gifts and Pledges from Private Sources**
Fiscal years 2007-2010

**Endowment funds**
(Market value, June 30, 2010)

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**Subtotal**
Undergraduate
978
Masters
989
PhDs
211
Other Doctorates (ID, MD, DMD, DMgt)
570

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**Total Alumni**
107,150

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**Gifts and Pledges from Private Sources**
115.5 million

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**Endowment funds**
1,519 million

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**Total operating surplus**
$2.2 million
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