

# TEMPLE TIMES

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Temple's biweekly newspaper for the university community

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## Rising to the challenge

In his 2011 State of the Union address, President Barack Obama issued what amounts to a clarion call to America's engineers: "In order for America to win the future, we need to out-innovate, out-educate and out-build the rest of the world," said Obama.

If activities during National Engineering Week are any indication, Temple engineers are up to the challenge.

From Feb. 21 to 26, the College of Engineering held more than 20 events that offered students and faculty an opportunity to demonstrate how their field touches everyday life. Activities highlighted contributions to biomaterials, fuel cells, smart materials and solar energy, as well as innovations such as 3-D imaging, augmented reality, porous concrete and solar cars.

"I feel like engineers are kind of responsible for a lot of things that most people take for granted, like roads, buildings," said senior engineering student Thomas Gallen. "Engineers are behind everything to some extent ... any object."

In addition to its showcase of technology, National Engineering Week offered students a chance to demonstrate their practical skills, test their technical knowledge and present their research projects.

The week's keynote speaker was Dave Westerholm, director of the Office of Response and Restoration for the National Oceanic and Atmospheric Administration. Westerholm's office provided technical expertise during last year's Deepwater Horizon oil spill in the Gulf of

*Engineer continued on 4*

Week of activities showcases the vital role of engineers



Engineering students test their designs in a penny car competition as part of National Engineering Week.

Aanna Burke



Temple's chapter of the Institute of Electrical and Electronics Engineers hosted a brown bag competition in which students constructed powered cars from a set of household items that included a mousetrap, paperclips and rubber bands.

Aanna Burke

## Faculty mentor peers in classroom technology

By Eryn Jelesiewicz  
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Blogs that draw out quiet students, video chats in French, voice e-mail feedback from a professor, interactive posters created on Glogster, and a wiki on dental materials. The technology that's now available for the classroom is revolutionizing both teaching and learning.

Proponents insist that technology is critical for the 21st-century classroom, that student engagement has flourished with the use of technology, and that technology gives faculty endless options for student work and assessment. Yet only a small portion of Temple's faculty are using classroom technology to its fullest extent.

To build the use of technology in Temple classrooms, tech-savvy faculty are mentoring small groups of colleagues through a new year-long program, Faculty Mentors for the Future of Instructional Technology. Organizers believe the project will leverage the strengths of faculty already making great strides with technology by having them share their knowledge with colleagues who are interested but haven't yet taken the plunge. There are 17 teams of three to four faculty members.

"In developing the program, we asked ourselves: 'How do we reach beyond the early adopters? How do we get more faculty committed to using technology?'" said Robert Aiken, professor and chair of the Teaching and Learning Technology Roundtable, which created the program.

Part of the challenge is that some faculty are reluctant to try new technology or doubtful about its value.

"I believe you can teach beautifully with or without technology, but this is the language that our students now speak," said Pamela Barnett, associate vice provost and director of the Teaching and Learning Center and the mentoring program's facilitator. "Students are used to getting information, having discussions and thinking about issues in the virtual environment."

"Technology also helps us reach different kinds of learners," said Aiken. "We want to give students the opportunity to learn and to show us what they've learned in different ways."

Keith Quesenberry, an instructor of advertising and one of the 17 mentors, experienced first-hand the power technology has to reach different types of learners. To foster interaction, he requires students to blog and comment on their classmates' posts.

"During class discussions, you have your outgoing students and your quiet students, and you don't always have time to get around to everyone," said Quesenberry. "The blog has leveled the playing field by giving everyone a voice in the class."

Quesenberry, who is working with three mentees, also saw an increase in student engagement and writing quality, which he attributes to the public nature of the blog.

Another mentor, Wil Roget, chair of the Department of French, German, Italian and Slavic Languages, is working with three mentees to teach French virtually by incorporating video and audio. It is the first time that language instruction at Temple has gone entirely online.

Roget engages students in 30-minute one-on-one video chats at the end of the course.

Activities during the course include interactive writing, speaking and comprehension exercises, compositions, lectures, film and video screenings. He uses the full

## Several fitness options available for Temple staff

By Kim Fischer  
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With busy work schedules, family commitments and other obligations, maintaining a consistent fitness routine can become a major challenge. Luckily for Temple faculty and staff, the university offers several fitness resources that make it easy to stick to an exercise routine and see results.

At a very low cost, employees can access one of several facilities, making it convenient to get in a workout around scheduled work hours.

Larry Banks, senior technical support specialist, has been taking spinning classes offered at Temple's Independence Blue Cross Student Recreation Center (IBC) for two semesters straight and says he has never felt better in his life.

"It helps that it's near my work, it's affordable and you can pay with a convenient payroll deduction," said Banks.

Captain Eileen Bradley started going to the IBC two years ago but says she wishes she had started sooner. A 39-year veteran of Campus Safety Services, Bradley now attends Pilates or a similar group fitness class three to four times a week either during lunch or after work. Bradley says there's something at the IBC for every fitness level. "You don't have to be a super athlete to take advantage of the



Temple employees who participate in either the Campus Recreation or Health Fitness and Wellness Center programs can access the Pearson Hall pool for lap swimming or aquatic exercise.

Joseph V. Labolito

classes or facilities," she said.

Joining the IBC costs just \$10 a month — a cost that employees who have elected to receive health benefits through Temple can recoup by signing up for Independence Blue Cross' Healthy Lifestyles reimbursement program. The program will reimburse up to \$150 when 120 workouts are completed within a 365-day period. To qualify, employees must be a member of a full-service fitness center.

Located at the corner of 15th Street and Cecil B. Moore Avenue, the IBC offers more than group fitness classes. The center also provides areas for both strength training with

weights and machines, and cardiovascular workouts on treadmills, elliptical trainers, stair steppers and recumbent and upright bikes. Patrons may plug their headphones into the CardioVision adapter to listen to one of the eight TVs in the cardiovascular area.

Employees who sign up can also use other campus recreation facilities such as the outdoor track or the tennis courts and are even eligible to participate on intramural sports teams, such as softball or soccer.

Temple University Fitness (TUF) is a new

*Fitness continued on 2*

*Mentor continued on 2*



# Employees can access health services on Main Campus

By Kim Fischer  
kim.fischer@temple.edu

Temple faculty and staff have several options for medical treatment right on the university's Main Campus.

Temple University Employee Health Services (EHS) works to promote, protect and secure the well-being of the Temple University Community. EHS provides on-campus medical treatment for work and non-related work conditions. The staff includes Joshua Rosenzweig, a board-certified internist; a registered nurse; and an administrative specialist.

"If you're sick or have an urgent care need and you call for an appointment before 2 p.m., you can usually be seen

## Employee Health Services

1810 Liacouras Walk, fourth floor

**Hours:** 8:30 a.m. to noon and 1 p.m. to 4:30 p.m., Monday through Friday.

1-2679 or [emphs@temple.edu](mailto:emphs@temple.edu)

[www.temple.edu/](http://www.temple.edu/)

by the doctor that same day," said Mark Denys, associate director of Temple University Student and Employee Health Services. "Even if you call after 2, we will try to fit you in. And if we can't,

we'll schedule you for the next day."

Additional services include allergy shots, blood draws, immunizations, pre-employment exams, surveillance exams and worker's compensation.

Insurance co-pays are waived; employees covered by Keystone need a referral from their primary care physician. Work-related injuries are treated quickly and efficiently.

Thursday appointments are available with Michael Weinik, associate professor of physical medicine and rehabilitation, who provides treatment in sports medicine, musculoskeletal, spine and trauma rehabilitation. Weinik holds a sub-specialty certification in sports medicine and has served as a team physician and consultant to Philadelphia

sports teams including the Flyers, Eagles and Phillies.

For employees who have questions about their medications, Employee Health Services has partnered with the School of Pharmacy to offer a pharmacy clinic. The clinic's services include a review of all prescription drugs, non-prescription drugs and herbal supplements to ensure their safe and effective use; a discussion of common side effects; and help with strategies for adhering to a medication schedule.

"By working to keep Temple employees healthy, these initiatives help to decrease absenteeism, decrease health care costs and increase productivity," Denys said.



## Mentor

From page 1

resources of the virtual classroom to make the study of French accessible to students anytime and anywhere.

Such engagement requires a lot of motivation and organization from students, but Roget believes it has also led to much more learning because students are more engaged and accountable.

As the College of Education has undertaken a complete curriculum revision, Catherine Schifter, associate professor of curriculum, instruction, technology in education, has become a mentor to infuse more technology into the new curriculum. Her mentees are using Glogster, flipcams, blogs, online surveys and voice e-mail.

"We need to be innovative and flexible with technology so that our students can be 21st-century teachers," said Schifter.

In Dentistry Professor Dan Boston's basic material sciences class, students analyze product claims about dental materials. In



Education student David Romberg learns to use the breakout group feature on Wimba, software that creates a virtual classroom, from Julie Kessler, clinical assistant professor of curriculum, instruction, technology in education, and Catherine Schifter, associate professor of curriculum, instruction, technology in education. Schifter is mentoring Kessler in the use of classroom technology.

small groups, they make their case on a wiki, which is later opened for comments from the entire class. Boston reports that the project has a strong impact on the students and is very efficient for the teacher. His mentees are using wikis in patient case-based discussions.

Each mentor receives a \$2,000 stipend. Many of the mentors (and mentees) will be showcasing their work at Technology Day on April 8. The organizers hope that this year's mentees will become next year's mentors, helping technology to proliferate throughout the university. u

## Fitness

From page 1

Campus Recreation facility located across the street from the IBC on the corner of North Broad Street and Cecil B. Moore Avenue (second floor) with over 16,000 square feet of space featuring cardio and strength training equipment.

The university also has fitness centers on Temple's Ambler and Health Sciences campuses and at TASB and the School of Podiatric Medicine.

Another option for those looking to get fit is the Health Fitness and Wellness Center (HFWC), located in Pearson Hall and sponsored by the Department of Kinesiology in the College of Health Professions and Social Work.

At a cost of \$150 annually, also payable through payroll deduction and also reimbursable through Healthy Lifestyles, members of the HFWC are closely monitored by qualified staff, who are often graduate students in the Department of Kinesiology, and receive health information and individualized fitness programs to help them achieve their personal goals.

Lisa Troy, program coordinator at Temple's Institute on Disabilities, says she likes the individual attention she receives at HFWC. "When I was trying to put together my workout schedule and set my personal weight loss goals, I received a customized plan of circuit training tailored just for me — and it actually worked! I am still working with that plan today," said Troy.

And, if you're looking for someone to take you through each lunge and count every one of your push ups, the

## Learn more

n **Independence Blue Cross Student Recreation Center and TU Fitness** [www.temple.edu/campusrec/](http://www.temple.edu/campusrec/)

n **Health Fitness and Wellness Center** [www.temple.edu/chpsw/departments/kinesiology/Kine\\_healthfitness.htm](http://www.temple.edu/chpsw/departments/kinesiology/Kine_healthfitness.htm)

n **Healthy Lifestyles reimbursement** [www.temple.edu/hr/departments/benefits/](http://www.temple.edu/hr/departments/benefits/)

HFWC offers personal training with a certified trainer at an additional cost of \$10 per session. Personal training is not available at the IBC or TUF.

Although smaller and less high-tech than the IBC or TUF, the HFWC has both strength training and cardio equipment, and members have use of the locker room and Pearson Pool as well. The center offers one group fitness class — a group circuit training workout with instructor Christine McNutt, a master's student in Kinesiology and a certified personal trainer. She tailors the session to meet the needs of those in attendance at the class on each particular day.

Hours for the HFWC are limited to early morning, lunch and early evenings, when employees with traditional work schedules are most likely to go.

On March 21 from 6-7:30 p.m., the Center will offer a free Iyengar Yoga workshop with instructor Marian Garfinkle. The workshop is designed to help participants unleash their health potential. u

## Annual health and wellness fair set for April 19

Temple employees can take steps toward a healthier life at the university's eight annual health and wellness fair, scheduled for April 19 in the Liacouras Center's Fox-Gittis room. The event, which runs from 10 a.m. to 2 p.m., will feature free information on a variety of health topics, including fitness, dental

options, diet and nutrition and more. Participating exhibitors will include AETNA Dental, Temple's Center for Obesity Research and Education, Sporting Club at the Bellevue, Health Solution and United Concordia Dental. The fair is presented by Human Resources' Benefits Office.

## Faculty mentors share expertise with colleagues

n **Keith Quesenberry, Advertising**  
Blogs as a social networking platform through BuddyPress

n **Richard Heiberger, Statistics**  
Integrating Excel with statistical software

n **Kathy Uno, History, Asian Studies**  
Wimba classroom with group discussion

n **William Woodward, Law**  
Blackboard, Powerpoint, Jing and Wikis

n **Beth Pfeiffer, Occupational Therapy**  
Echo360 for class capture

n **Peter Marshall, Psychology**  
Teams LX, wiki function in Blackboard

n **Mahbur Meenar, Community and Regional Planning**  
Geographic information systems

n **Catherine Schifter, Education**  
Wimba classroom with voice email, group discussion and online quizzes

n **Robert Trempe, Architecture**  
Computer-numerically controlled laser cutting for planar fabrication

n **Sylvia Twersky-Bumgardner, Public Health**  
Wimba classroom with voice boards and video lecture

n **Renee Hobbs, Communications**  
Wikis, Voicethread and Jing

n **Dominique Kliger, Human**

**Resources Management**  
Wimba classroom, library subject guides and online video course materials

n **Franklin A. Davis, Chemistry**  
Powerpoint and ChemDraw

n **Abbe E. Forman, Computer Information Systems**  
Web 2.0, blogs and wikis

n **Wilbert J. Roget, French, German, Italian, Slavic**  
Wimba classroom for teaching foreign language

n **Justin Yuan Shi, Computer Information Systems**  
Course cast and mobile platforms

n **Daniel W. Boston, Dentistry**  
Wikis

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FacultySpotlight



Joseph V. Labolito

Martin Adler, director emeritus and senior advisor of Temple's Center for Substance Abuse Research, maintains an active research practice in the School of Medicine more than 50 years after he joined Temple.

# Adler's 50-year love affair with Temple continues

By Preston M. Moretz  
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In 1960, Martin Adler literally could have gone anywhere, but he chose Temple.

As the first Ph.D. graduate from Albert Einstein College of Medicine, Adler had some 20 job offers in pharmacology from a variety of institutions. But after interviewing at Temple, he knew this was the place he wanted to be.

"I really liked the people, and I just had a good feeling about Temple," said Adler, who joined the pharmacology faculty in Temple's School of Medicine. "And I still do. It's kept me here for 50 years."

The Temple of a half-century ago had the same basic structure, with nearly the same number of schools and colleges, remembers Adler, who is director emeritus and senior advisor of Temple's Center for Substance Abuse Research. "But it was a smaller institution back then, so it was more integrated," he said. "There was more interaction between the Health Sciences Campus and Main Campus."

So small and integrated that Adler recalls during his early days at Temple that the School of Medicine dean — "I think I'm on about my 13th dean," he notes — would come to the cafeteria every morning around 8:30 and faculty could talk with him over coffee.

But while the university has grown and changed over the years, Adler said one thing has remained a constant. "What has not changed is the emphasis on education. That's always been the main emphasis of Temple," he said.

A teacher and a researcher when he first came to Temple, Adler gave up full-time teaching when he became an emeritus professor 10 years ago. But he still receives grant funding and maintains a full research lab in the School of Medicine.

In his early years, Adler's research focused primarily on the effects of brain damage from epilepsy and the brain's response to drugs such as morphine, which are used to treat altered brain activity and help in the recovery of brain function. Today, he continues to study such drugs, but now in terms of their impact on pain relief and the immune system.

"There have been so many changes, especially in genes and genetics," he said. "A lot of changes have occurred in the immunology field. When I took immunology as a graduate student it wasn't even a separate discipline."

After a half-century, most people would be thinking about enjoying their retirement, but not Adler. He still loves the people he works with and is as motivated about his research as ever.

"One of the positive things about Temple is that the people are so great to work with — the best group of people I've known anywhere," he said. "They're good scientists, you can work with them and nobody ever turns you down if you want to work collaboratively."

"Also, I still want to do something good for society, and I think what I'm working on now may be the most exciting thing I've ever worked on," he said. "Because if this works — always a big if — we can have a whole brand new approach to treating severe inflammatory pain."

So how much longer will he continue in his lab? "Research is a way of life and it is my life," said Adler. "Nothing gives me more aggravation than some of the things that go on in my research, but nothing gives me greater pleasure and satisfaction. So, I'll go on as long I keep getting grant funding." u

# Growing group helps build cross-cultural connections

By Jazmyn Burton  
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It was an idea whose time had come. Drawing inspiration from a small dialogue group comprised of men of color, in 2009 Marie Amey-Taylor, assistant vice president of learning and development, Human Resources, and Tiffenia D. Archie, director of faculty recruitment and retention in the Office of Institutional Diversity, Equity, Advocacy and Leadership (IDEAL), decided to coordinate a networking event for the women of color on Temple's campus.

The purpose was to bring Temple women of color together to meet and connect, and to identify professional development and networking opportunities. Interest in the event was overwhelming.

"The high response helped us realize that there was something happening here — women of color on Temple's campus had a real interest in coming together," Archie said.

Through their interactions with faculty and staff, Amey-Taylor and Archie observed that many women of color, regardless of their positional level, felt isolated.

"Women of color faculty members may know other faculty members, and administrators and staff may know each other, but there were few opportunities for them to come together, make connections and support each other," said Amey-Taylor.

Based on the recommendations captured from the more than 200 women who attended the networking event, a formal group, the Temple University Women of Color (TU-WoC) was formed to create programming and events designed to foster continued



Kelly & Masses

Members of the Temple University Women of Color group listen to a presentation on maintaining healthy relationships facilitated by Denise Walton of Tuttleman Counseling Services. The group hosts monthly events including brown-bag lunch discussions, book club readings and outings.

interaction and dialogue.

In addition to the now-annual networking event, the organization provides professional development and social engagement through brown-bag lunch discussions on issues related to women of color; monthly cross-cultural events; special projects and a book club that explores the work of diverse women authors.

The group invites the participation of all members of the university community who support its mission: to provide a space for women of color to engage in discussions and community building within a supportive environment.

TU-WoC's membership reflects the

cultural diversity of Temple's campus, said Amey-Taylor. Latinas, Native Americans, African Americans, Asian Americans and women from multi-cultural backgrounds have attended the various events sponsored by the organization.

The organization is currently raising funds to support a TU-WoC scholarship to support the educational goals of a Temple female student of color. The winner of the TU-WoC scholarship will be announced in fall 2011.

For information on TU-WoC or to learn how to support the scholarship fund, contact Kimberly Sakil at kimberly.sakil@temple.edu. u

# Temple student takes nutrition program to Norristown kids

By Renee Cree  
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When Miss Gabbie comes to visit the kindergarteners at Paul V. Fly Elementary School in Norristown, Pa., the children know they're in for a treat — literally.

Miss Gabbie is Gabriella Rovito, a Master of Public Health student who has been visiting the children since October as part of her Albert Schweitzer Fellowship to teach them about healthy habits related to nutrition. Every other week, Miss Gabbie visits five classrooms and gives a lesson on healthy eating, followed by a taste-test of the food she's just discussed.

"Childhood obesity is rampant among young children, and research has shown that healthy eating habits develop early in life," said Rovito. "The goal is to introduce children to healthy foods in hopes that their preferences will carry over into the home."

And so far, it seems to be working. Lauren Zibelman, a kindergarten teacher at Paul V. Fly, says that several parents have told her that their children are now trying healthier foods at home.

"I've had several e-mails and phone calls from parents asking about Gabbie's lessons and for the recipes so they can make the food again at home," she said.

After each lesson, Rovito provides the

children with a flyer to take home to parents that includes information about what the children have learned, along with a recipe and nutritional tips.

"Something as simple as texture can put a child off of wanting to eat a healthy food," said Rovito. "And you need to try something 5-10 times to determine whether you'll like it or not."

To overcome such obstacles, Rovito says she tries to package healthy foods in a form that's familiar to the students — such as making frozen yogurt look like an ice cream sundae, complete with a Craisin "cherry" on top.

"The children love it when Miss Gabbie comes to visit," said Zibelman. "They look forward to sharing everything they know about healthy eating with her, and they display such a sense of pride whenever they have the chance to share during her lessons."

Before the children went on holiday break, Rovito hosted "Cooking in the Classroom," where children donned chefs hats and made their own yogurt parfaits, complete with fresh fruit. She's planning another event before the children leave for spring break.

Rovito based her curriculum on the Kindergarten Initiative (KI), a program run through The Food Trust in Philadelphia, where she was an intern for several years.

The KI program stipulates that in order to participate, a school must meet the requirements for the SNAP-ED program, an extension of the federal Supplemental Nutrition Assistance Program that provides schools with nutrition education. This was the first year that Paul V. Fly was not eligible, so Rovito elected to use her funding from the Albert Schweitzer Foundation to extend it for another year.

"Through the Food Trust, I've had the opportunity to work with Paul V. Fly before, and I knew their time for the KI program was running out," said Rovito. "And there's no line for kids who need an education on nutrition; obesity is a nationwide problem that transcends race, economics and a number of other factors."

Zibelman, a kindergarten teacher for the past seven years, said she has seen first-hand the effects of instilling good habits early on.

"Introducing healthy choices as early as possible helps them become a natural way of life, rather than something that has to be done," she said.

After the program wraps up in May, Rovito will compare her exit data to baseline information to see if the children's attitudes toward and knowledge about healthy foods has improved. She also plans to hold focus groups with teachers to learn more about what they've observed over the school year.

"Telling a child why vegetables are better for them won't do much to change their behavior," she said. "But if you engage them and have them become familiar with the foods you're talking about, it makes it more personal for them, and there's a better chance of making the message stick."

The Albert Schweitzer Fellowship is awarded to individuals who are dedicated to meeting the health needs of underserved populations by partnering with community-based organizations to develop and implement yearlong, mentored service projects. Rovito joins a legacy of Temple Schweitzer Fellows from the College of Health Professions and Social Work, the School of Medicine and the School of Podiatric Medicine. u

Kindergarteners at Paul V. Fly Elementary School in Norristown, Pa. enjoy a fruit and yogurt parfait as part of Temple public health student Gabriella Rovito's nutrition class. "Miss Gabbie" has been visiting the school every other week since October to teach healthy eating habits to five kindergarten classes.

Courtesy Gabriella Rovito





# With donation, Blockson Collection will keep Tuskegee legacy alive

By Jazmyn Burton  
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At a time when African Americans in the United States were still subject to overt racial discrimination, the Tuskegee Airmen became the first military aviators of color to join the U.S. Armed Forces.

Now Philadelphia-area survivors from the group have donated a trove of photographs, correspondence and other documents to the Charles L. Blockson Afro-American Collection at Temple that will remind future generations of the veterans' noble service and sacrifice.

"We are very proud to be the recipients of the Philadelphia Chapter archives," said Diane Turner, curator of the Blockson Collection. "When America needed its men and women to go to war, these courageous men enlisted and fought against great odds. Not only did they fight in combat, they fought against racism and



Several members of the Tuskegee Airmen Philadelphia Chapter visited Main Campus recently to share personal stories about their experiences during World War II and donate photographs, correspondence and other documents to the Charles L. Blockson Afro-American Collection.

discrimination at home." Several members of the Tuskegee Airmen Philadelphia Chapter visited Main Campus recently to share personal stories about their

experiences during World War II. Founded in 1972, the chapter includes members who fought during WWII and the civilian and military personnel who supported their push to integrate

the U.S. Air Force.

With many members deceased, finding the time and space to store important documents became a task that was too big for surviving members to handle, said Eugene Richardson, 2nd Lieutenant and Philadelphia Chapter chairman.

"We're all getting older. Officers come and go, things get lost and misplaced," Richardson said. "We thought it would be a great idea for the Blockson to have these resources and help preserve the history of the Tuskegee Airmen, Philadelphia Chapter."

The donation represents more than 20 years of history, including the organization's original charter.

Richardson, who earned his business degree from Temple in 1953, became interested in flight as a young boy after his father and a friend took him along to see the Colored Air Circus, a group of African-American aviators performing an air show in

Mansfield, Ohio.

Driven by pure interest to fly, he decided to join the Army Air Corps in order to become a pilot. When he turned 17, he signed up to take a pilot qualification test.

"My father was actually against my decision to train as a pilot," said Richardson. "But he eventually gave his permission and signed the parental permission papers needed."

Richardson passed the test, and a few months later, at the age of 18, was sent to Keesler Field in Mississippi for three months of basic training. It was 1943, the height of segregation in the South.

"The Tuskegee Airmen inspired revolutionary reform in Armed Services," said Richardson. "It's important that researchers and students have access to our stories. We're grateful that an institution like Blockson exists. We know that the archives will be put to good use here." u

A group of Rosies, circa 1943, from the collection of Marlyn Meltzer, a Temple mathematics education student who went to work as a human computer in 1942.

Courtesy Marlyn Meltzer



## Film professor's 'Top Secret Rosies' reveals hidden war effort

The iconic image of Rosie the Riveter remains an enduring symbol of American women's role in World War II. But few know that Rosie had a legion of sisters whose war contributions relied more heavily on brain than brawn: a group of female mathematicians who worked as America's first "human computers."

In 1942, just after the Japanese attack on Pearl Harbor, hundreds of female mathematicians from across the country — some as young as 18 — were recruited to a secret military program that put them to work around the clock, devising ballistics programs. Their efforts helped the Allied powers win the war and ushered in the modern computer age.

In *Top Secret Rosies: The Female Computers of WWII*, Temple Associate Professor of Film and Video LeAnn Erickson reveals four of these remarkable women — one of whom was a Temple student. Screened at Temple for the first time during last week's Metro Engagement Forum, the film provides insights into the career opportunities the war opened for women and the moral dilemmas

they faced as part of the effort.

Working at the University of Pennsylvania, the women used a differential analyzer that enabled them to account for multiple factors as they calculated the speed, angles, distance and direction that would produce optimal targeting for different types of weapons in different types of terrain. A single tabulation could take up to 40 hours to complete by hand.

Their work led to the development of the ENIAC, or Electronic Numerical Integrator and Computer, the first modular computer capable of solving computing problems. Weighing in at roughly 30 tons and taking up 680 square feet, the precursor to modern laptops was completed at Penn in 1946, and programmed by six of the "Secret Rosies."

Erickson has been making independent films for more than 20 years. Her work has been shown on public and cable television and in media and art galleries and has won national and international recognition in various film festivals.

— Elizabeth DiPardo

## Engineer

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Mexico. He discussed the challenges his office faced in trying to mitigate damage from the spill, and how they are using the lessons learned to plan for and prevent similar disasters.

Faculty from the departments of mechanical engineering, civil and environmental engineering and electrical and computer engineering worked with students and professional engineering organizations to plan and run the week of events.

"National Engineers Week is

an opportunity to highlight and celebrate the roles, responsibilities and contributions of engineers to our society, as we showcase the outstanding work of our students and faculty in the College of Engineering," said Temple Engineering Dean Keya Sadeghipour.

This year marks the 60th anniversary of National Engineers Week, which is held each year during the third week of February to honor George Washington's birthday. America's first president is also considered the nation's first engineer for his work in surveying, construction and water works and because he established the U.S. Army Engineer School.

— Elizabeth DiPardo

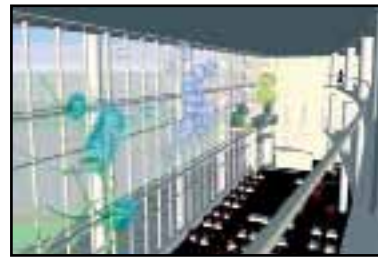
## Medicine will dedicate three-story art installation

On March 10, the School of Medicine will dedicate a major art installation, "The Unseen World," in the Commons Atrium of the Medical Education and Research Building.

Designed by Philadelphia artist Kate Kaman, of Kaman and Erland, "The Unseen World" is a three-story high, sculptural celebration of the world's tiniest organisms: bacteria. Suspended throughout the atrium, the piece embodies the simplicity and variety of the omnipresent life form, with 55 sculptures representing different species. The work is illuminated with colored LED lights, creating a sense of movement. It can be viewed from both inside and outside, on Broad Street.

The dedication will be held in conjunction with the Stiffel Learned Lecture Series and will be hosted by School of Medicine Dean John M. Daly and the Art Committee at Temple University School of Medicine. The lecture will feature Alan C. Braddock, assistant professor of art history at Tyler School of Art, on the importance of medicine as represented in art. His presentation, "Seeing and Curing: Thomas Eakins and the Art of Modern Medicine in Philadelphia," will be offered in Luo Auditorium at 4 p.m., with the

### Featured Events



"The Unseen World," a three-story high, sculptural celebration of bacteria, will be dedicated next week at the Medical Education and Research Building.

sculpture dedication to follow in the atrium.

### Ambler performance celebrates the music of Rodgers and Hart

On March 4 at noon, the Boyer College of Music and Dance and the Ambler Learning Center will present a community concert featuring John Johnson, professor of music studies in Temple's music theory program.

The show will feature a selection of songs from Rodgers and Hart, the American songwriting team who composed more than 28 musicals between 1919 and 1943. Their work

includes "Fly With Me," "Babes in Arms," "America's Sweetheart" and "A Connecticut Yankee." A lecture on the composers' contributions to American music will follow the performance.

Johnson has been a Temple professor for more than 40 years and has filled the roles of pianist, accompanist, vocalist, musical director, composer, actor, scholar and educator. He is a 2010 recipient of Temple's Great Teacher Award.

The community concert is free and open to the public.

### Chamber Orchestra of Philadelphia – March 8

The Temple Performing Arts Center's resident company, the Chamber Orchestra of Philadelphia, will perform selections from Mozart, Lutoslawski and Haydn on March 8 at 7:30 p.m., under the direction of conductor Ignat Solzhenitsyn.

The 33-member ensemble has toured globally, gaining a reputation for distinguished performances of works from the baroque era through today.

For tickets, call the Liacouras Center Box Office at 1-800-298-4200, or visit [www.thebaptisttemple.org/](http://www.thebaptisttemple.org/) single-tickets for more information.

## Girl Scouts honor President Hart

President Ann Weaver Hart was honored Tuesday as a recipient of the 2011 Take the Lead award from the Girl Scouts of Eastern Pennsylvania (GSEP).

The award recognizes women of courage, character and confidence — role models and leaders who exemplify the ideals the Girl Scouts organization strives to instill in its members.

As Temple's first female president, and an active member of the Philadelphia community, Hart has worked to bring excellent educational opportunities to motivated students, encouraged cross-cultural community engagement and turned North Philadelphia into a hub for arts and culture.

In addition to Hart, the GSEP recognized Pamela Browner White, senior vice president of public affairs and government relations, Philadelphia Eagles; Kyra McGrath, executive vice president and COO,

WHYY; and Michele Ridge, former first lady of Pennsylvania.

Kara Dorman, a Girl Scout and senior at Imhotep Charter School in Philadelphia, introduced Hart at the ceremony. In preparing for the honor, Dorman had interviewed the university president and said she got to know her as a leader and as a person.

"I was inspired to see a scholarly woman so determined to make a difference," Dorman said. "She shared advice given to her by her mentor in graduate school, who said, 'If you think failure is the final destination, then you have closed the door on opportunity.' Dr. Hart has motivated me... to be persistent, passionate and determined to succeed."

The ceremony itself was an exercise in leadership for several local scouts. Thirty-five girls ages 9-18 helped run the program as emcees, presenters, table advocates, hosts, color guard and members of the chorus. The presenters were given the opportunity to shadow



Girl Scout ambassador Kara Dorman meets with President Ann Weaver Hart in preparation for the Girl Scouts of Eastern Pennsylvania Take the Lead awards luncheon.

the recipients at work, getting a taste of day-to-day business operations.

"The Take the Lead experience culminates in girl-led events that make a lasting impression," said GSEP CEO Natalye Paquin, Esq. "It becomes a true celebration of the girls' potential as our future leaders."

— Elizabeth DiPardo