

RIT scientists work to restore ancient Hindu manuscript

Scientists who worked on the Archimedes Palimpsest are using modern imaging technologies to digitally restore a 700-year-old palm-leaf manuscript containing the essence of Hindu philosophy.

The project, led by P.R. Mukund and Roger Easton, professors at RIT, will digitally preserve the original Hindu writings known as the Sarvamoola granthas attributed to scholar Shri Madvacharya (1238-1317). The collection of 36 works contains commentaries written in Sanskrit on sacred Hindu scriptures and conveys the scholar's Dvaita philosophy of the meaning of life and the role of God.

The document is difficult to handle and to read, the result of centuries of inappropriate storage techniques, botched preservation efforts and degradation due to improper handling. Each leaf of the manuscript measures 26 inches long and two inches wide, and is bound together with braided cord threaded through two holes. Heavy wooden covers sandwich the 340 palm leaves,



Image provided by Roger Easton and Keith Knox

Each palm leaf of the sacred Hindu manuscript, the Sarvamoola granthas, was captured in multiple sections, processed and digitally stitched together. This image shows a stitched and processed page after applying modern imaging technologies.

cracked and chipped at the edges. Time and a misguided application of oil have aged the palm leaves dark brown, obscuring the Sanskrit writings.

"It is literally crumbling to dust," says Mukund, the Gleason Professor of Electrical Engineering.

According to Mukund, 15 percent of the manuscript is missing.

"The book will never be opened again unless there is a compelling reason to do so," Mukund says.

"Because every time they do, they lose some. After this, there won't be a need to open the book."

Mukund first became involved with the project when his spiritual teacher in India brought the problem to his attention and urged him to find a solution. This became a personal goal for Mukund, who studies and teaches Hindu philosophy or "our way of life" and understood the importance of preserving

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RIT welcomes all to Homecoming '06

RIT's Brick City Homecoming tradition continues this weekend with a wide range of events designed to engage alumni, families and students.

There will be opportunities to observe what life is like for present day RIT students—both inside and outside of the classroom. Alumni can reconnect with old friends, faculty and staff members. And there will be plenty of entertainment along the way.

Here are a few of the highlights (see the program for a complete listing of events and further details):

Friday

■ RIT After Class: Learn what students are doing outside the classroom, 11 a.m.-4 p.m.

■ RIT Museum grand opening and open house: Celebrate the opening of the brand new RIT Museum, located on the third floor of Wallace Library, 2-4 p.m.

■ Yellowcard: The punk-inspired band takes the stage at the Gordon Field House and Activities Center, 8 p.m.

Saturday

■ A Word from our President: President Albert Simone, in his 15th and final year, discusses RIT's future, 9 a.m.

■ Brick City BBQ: Grab some lunch and rock to blues music, 11:30 a.m.-2:30 p.m.

■ Horton Distinguished Speaker Series: environmentalist Erin Brockovich, who is credited with spearheading the largest environmental direct-action lawsuit, with the largest legal settlement in U.S. history, will present in the field house, 2 p.m.



■ Brad Garrett: The comedian and three-time Emmy Award winner, best known for his portrayal of Robert Barone on *Everybody Loves Raymond*, will perform in the field house.

Sunday

■ Head of the Genesee Invitational Regatta: More than 30 collegiate crew teams, including RIT's men's and women's squads, compete in the annual rowing event, 9 a.m.-3 p.m.

Ticket information

■ Brad Garrett, \$16.50 for students, \$32.50 for parents/faculty/staff/guests, \$47.50 for the public
■ Erin Brockovich, \$5/\$8/\$12
■ Yellowcard, \$16/\$25/\$30

Tickets are available at the Gordon Field House and Activities Center box office or by calling 475-4121. Tickets are also available at all Ticketmaster locations.

Visit <http://www.rit.edu/brickcity> for more details. ■

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Search for the RIT President

Learn about RIT's top job on the Web

Presidential candidates can learn more about RIT and the scope of the top job in a "position profile" now available on the Web.

The profile provides background on the university, sets forth the challenges and opportunities that lie ahead, and describes the personal and professional characteristics and experience the next president should possess. The 13-page document is available on the Web:

www.rit.edu/presidentialsearch.

The Presidential Search Committee developed the profile with input from the RIT community.

"The document incorporates ideas received from all constituencies—faculty, staff, students, alumni and trustees," says Donald Boyce, trustee and chair of the committee. "We held a number of open forums on campus and in cities around the country; we studied the results of open-ended questionnaires from governance groups; we analyzed results of the electronic questionnaire on the Web site; we met with each of the campus governance groups; we met with senior administrators; and we discussed the position with trustees. The document was carefully crafted taking into account the information received."

The document discusses the current environment at RIT, such as student life, alumni relations, sponsored research, finances and more. And the document examines the challenges and opportunities for the next president. ■

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Entrance to the Old Town in Dubrovnik, Croatia, subject of the 23rd Big Shot photo project in April.

Big Shot project will travel to Croatia

RIT's School of Photographic Arts and Sciences is taking its annual Big Shot photo project to Croatia in April. The school is extending an invitation to the RIT community to travel abroad for this international event to be hosted by RIT's American College of Management and Technology, nestled in the heart of Dubrovnik.

Dubrovnik, located along the Adriatic coast, is a tourist mecca and home for the past 10 years to ACMT. The college offers an associate degree and a bachelor's degree in hospitality and service management, a new master of science degree in service management, and several certificate programs to serve the local business community. More than 600 students are enrolled in ACMT programs.

"The Big Shot will be a great way to have other RIT colleges involved with ACMT," says Don Hudspeth,

president and dean, RIT's American College of Management and Technology. "I think this endeavor is also a great opportunity to boost the reputation of RIT and ACMT within Croatia and the region, particularly the city of Dubrovnik. There have been many photographs taken of Dubrovnik's Old Town, but not a photograph as unique as this one."

What's unique about Big Shot, often described as a "painting with light" photograph, is that it requires hundreds of volunteers to illuminate a subject area using camera flashes and flashlights during an extended exposure. The subject area for this nighttime photograph will be the original entrance to Dubrovnik's Old Town. The stone wall stands 100 feet high.

Faculty members Michael Peres, Bill DuBois and Dawn Tower DuBois

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Rowin' on the river



A. Sue Weisler | photographer

HEAD OF THE GENESSEE INVITATIONAL REGATTA

Universities from the Northeast, Florida and Canada will help celebrate a fall tradition on the Genesee River as RIT and the University of Rochester host the Head of the Genesee Invitational Regatta on Sunday, Oct. 8.

The collegiate races begin at 9 a.m. High school crews will also race down the Genesee, and teams of employees from Rochester area corporations will highlight the new Pike Co. Corporate Challenge event.

For more information about this free community event, visit www.headofthegenesee.com.

Photo exhibit features alumnus

Bernie Boston '55 is as much a legend in the photographic world as his famous images. For more than 40 years, he was part of the A-team of photojournalists who grasped the essence of picturing history. And although some of his photographic assignments during his years at the White House or for *The Los Angeles Times* resembled a who's who of the social and political scene, Boston also managed to literally seize the day by recording the commonplace elements of human existence.

RIT's School of Photographic Arts and Sciences Gallery proudly presents Bernie Boston: American Photojournalist in a retrospective exhibition which runs through Oct. 15. An opening reception will be held from 5 to 8 p.m. on Friday, Oct. 6, during RIT's annual Brick City Homecoming alumni weekend.

"Bernie is a witness to our time and is rightfully recognized as one of the United States' most consummate news photographers," says Therese Mulligan, gallery director in RIT's College of Imaging Arts and Sciences. "As an RIT alumnus, he is a role model for today's photojournalism students."

Boston was named Outstanding Alumnus at RIT in 1975 and received the Distinguished Alumnus Award from RIT's College of Imaging Arts and Sciences in 2001. According to Mulligan, Boston's career was largely based in Washington, D.C., during the last half of the 20th century. "He captured the Civil Rights and anti-Vietnam war movements; the hermetic, inner sanctum of the White House and presidential residents; and history-making newsmakers,



Photo courtesy of Bernie Boston

Paul McCartney, left, walks to stage at Cincinnati Gardens, Aug. 24, 1964, during the Fab Four's first American tour and first trip to Cincinnati.

scandals, conflicts and triumphs."

Notably, one of Boston's signature pieces and an iconic work of this exhibition, *Flower Power*, earned him second-place as a Pulitzer Prize award-winner in 1967. *Flower Power* continues to be published in hundreds of publications, including *The Best of Life* as well as appearing in the PBS series *American*

Photography: A Century of Images.

In association with the exhibition, RIT Cary Graphics Arts Press is publishing a 112-page companion catalogue surveying Boston's award-winning career. The catalogue will be available for purchase during Boston's book signing during the opening reception of the exhibition. ■

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Student co-ops flood Citigroup

Renewing a relationship that began in the 1980s, Citigroup last summer hired 15 deaf and hard-of-hearing co-op students to work at the company's New York City-area offices. The students, mostly business, accounting technology, and finance majors, worked in a variety of departments, including human resources, finance, information technology, global equity and client management.

"Citigroup has consistently hired a large number of our students," says Allen Vaala, director of NTID's Center on Employment. "They have sought both associate and bachelor's level students across several majors and disciplines for

both co-ops and permanent hires."

Before the students arrived, NTID's Center on Employment presented an introductory seminar to Citigroup staffers on working with deaf employees and shared basic fundamentals regarding communication and interaction with the students, says Citigroup's Justin Cummo, a senior project analyst who supervised student Cynthia Ross.

Technology played a big role in keeping the lines of communication open between supervisors and interns.

"Instant messaging, which is standard in our division, worked fine," says Citigroup's Ivan Martinez, vice president of global client management. "Our

intern, Jonathan Poe, also taught us some basic sign language over the course of the summer. He was one of the strongest interns I've had in recent years."

Karen McGowan, director of U.S. Alternative Commission Services, was on medical leave when intern Matt Biglin joined her department, but says that even without any preparation, communication efforts didn't suffer when she returned.

"In many ways, communicating with Matt was no different than communicating with anyone else," says McGowan. "E-mail and instant messaging were both key."

"Matt is very personable and bright," she says, "and he really participated in all areas of our department. He reconciled trades, entered payments, and updated customer accounts."

"He was a pleasure to work with. We all hope he will join us again next year."

Graduate student Katie Dean worked with the Corporate Investment Banking's Global Financial Analysts group, where she prepared training materials, updated the group's vision statement, maintained courses on a database and toured the Federal Reserve.

Amanda Massab, who worked in both the information technology and human resources areas, says, "My bosses really made me feel useful and were confident enough to delegate tasks to me. People were friendly and patient, and I learned a lot."

Other interns working at Citigroup this summer were James Burns, Mei Chen, Caroline Czerepak, Gregory Haas, Christian Hanawait, Michael Laing, Ibukun Odunlami, Amardeep Sekhri, Jarrod Wagoner and Joanna Wong. ■

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Celebrating our \$300 million success



A. Sue Weisler | photographer

Hundreds of supporters of RIT's recently completed campaign attended a gala in the Gordon Field House and Activities Center on Sept. 30. The event celebrated the campaign's success in raising more than \$309 million, surpassing the \$300 million goal. Leading the champagne toast were, from left, Lisa Cauda, vice president of development and alumni relations; Bill Buckingham '64, RIT trustee and campaign chair; Michael Morley '69, RIT Board of Trustees president; and Albert Simone, RIT president.

Adventures in comic book making



Scott McCloud, leading comics theoretician and author, spoke at RIT on Sept. 18. For the first time, RIT will be one of the host sites for 24-Hour Comics Day, a worldwide cartooning marathon. The event has grown since its inception in 2004 after McCloud challenged a notably slow cartoonist friend to finish a comic in a day and word of the challenge spread to other amateur and professional cartoonists. The free event runs Oct. 7-8 in the Wallace Library. Participants will attempt to create a 24-page comic book in 24 hours. There is no pre-registration. People can begin registering at 11 a.m. on Oct. 7 at the library. For more information, visit 24hourcomics.com.

A. Sue Weisler | photographer

RIT launches 'cable college'

RIT's College of Applied Science and Technology is teaming with the Society of Cable Telecommunications Engineers to create the first cable-centric educational program for telecommunications technicians and engineers in the cable industry.

The program, called Society of Cable Telecommunications Engineers Cable College at RIT, will be offered exclusively online through distance education. The society's education advisory board, which is comprised of representatives from Comcast Cable Communications, Cox Communications, Charter Communications and Time Warner Cable, will assist in reviewing and guiding the curriculum.

"This ultimately should help us to develop new courses that give our students new choices in breadth and depth," says Mike Eastman, chair of the electrical, computer and telecommunications engineering technology program. "It allows us to reach a very wide range of students geographically. We also get to, through the advisory board, pull in some expertise that is unique to the cable telecommunications engineers. It's really a very good partnership."

Courses will be offered at both the undergraduate and graduate levels though both the telecommunications engineering technology program and the Center for Multidisciplinary Studies. Certificate programs will also be available.

"This program is being developed in conjunction with industry partners for the purpose of advancing the knowledge and workplace competencies of a targeted, growing industry," says Jim Myers, director of the Center for Multidisciplinary Studies.

The partnership was formally announced during the society's conference in June and course offerings will begin in the winter quarter. Eastman is hopeful that the program will eventually grow to include several hundred students.

College of Applied Science and Technology interim dean Carol Richardson is excited for the program to launch.

"The Cable College will allow us to continue to build relationships with the cable industry and this partnership will aid in our effort to provide students with high caliber, career focused education for this industry," Richardson says.

Wiley McKinzie, the college's Paul A. Miller professor for outreach education and former dean, was involved in finalizing the agreement.

"The value of the relationship between RIT and the Society of Cable Telecommunications Engineers extends beyond the additional student enrollment," McKinzie says. "We'll be designing new curricula, serving a new distance learning market, and developing relationships with major cable companies." ■

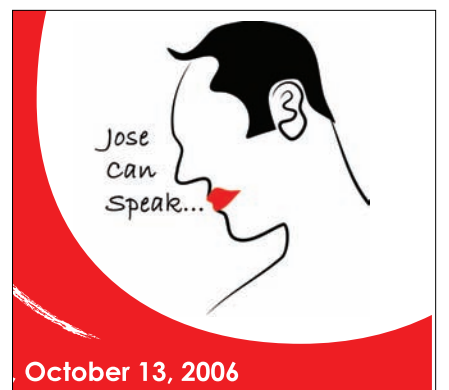
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Hispanic Heritage Month

Throughout October, several cultural activities will be offered on campus in recognition of Hispanic Heritage Month.

■ Award winning writer, director and producer, Linda Nieves-Powell will present *José Can Speak*, a series of monologues by Hispanic women, discussing topics from the Hispanic male's point of view. The performance takes place at 8 p.m. Oct. 13 in Ingle Auditorium, Student Alumni Union. Tickets are \$5 for students, \$10 for faculty/staff/alumni and \$15 for the general public. For more information, contact the Center for Campus Life at 475-4121 or e-mail cclevent@rit.edu.

■ Lambda Upsilon Lambda will sponsor Noche Dorada, 5-11 p.m. Oct. 14. The second annual benefit banquet will be held in room 2210 of the Louise M. Slaughter building. Cost is \$25 per person. For more information, contact Marvin Jean-



Jose Can Speak, a series of monologues by Hispanic women, is one of the featured events for Hispanic Heritage Month.

Jacques at maj8104@rit.edu.

■ Latin Eruption, a dance party co-sponsored by Phi Iota Alpha, La Voz and LASA will be held Oct. 7 in the Student Alumni Union cafeteria. This free event runs from 9 p.m. to 2 a.m. For details, contact Tom McCarthy at tjm6213@rit.edu. ■

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Safer ports goal of engineering project

Last month the world marked the five-year anniversary of the Sept. 11 terrorist attacks on America. Before and after, many people asked, "Are we safer today than we were then?" Although a variety of security measures have been implemented—most notably affecting air travel—experts warn we may never be completely safe from future attacks.

One area of concern: port security.

To assist authorities in threat analysis related to incoming vessels at American ports, researchers from RIT and the University at Buffalo have partnered on a project, funded by the U.S. Navy's Office of Naval Research, to aid human decision-making in the assessment of threats.

The project, Hierarchical High-Level Information Fusion Technologies, aims to simplify problem-solving by creating an advanced multi-intelligent system to enhance human interaction with level 2 and level 3 information fusion. Information fusion involves the correlation of data from multiple sources in the continuous evaluation of threats. Levels 2 and 3 pertain to detailed, high-level information.

A research team, led by Moises Sudit, RIT visiting associate professor of industrial and systems engineering and director of University at Buffalo's Center for Multisource Information Fusion, is developing software to



An illustration of a threat-analysis scenario depicting a data-fusion tool for port security being developed by RIT and University at Buffalo researchers.

simulate real-time naval threat-analysis scenarios—such as one involving a cargo ship containing weapons of mass destruction among a group of inbound vessels.

Thousands of sensors on aircraft, satellites, buoys and ships collect and process raw data every second—data which is then optimized by software to produce

a decreased amount of information that enhances situational understanding by human decision-makers.



Moises Sudit

The availability of less information may seem counterintuitive, but reducing raw-data overflow, while maximizing the amount of relevant information, is crucial in threat-analysis scenarios, which may prompt recommendations for counter-threat action. For instance, in the days leading up to the 2001 terrorist attacks, the amount of data requiring analysis overwhelmed intelligence agents, according to reports. A similar situation could occur involving U.S. ports.

"We have tons of information—how do we use it to say, 'We might want to look at this ship?'" explains Agamemnon Crassidis, RIT assistant

professor of mechanical engineering and one of the project researchers.

The software model—potentially capable of assessing threats from air, ground or sea—enhances situational assessment, or what is happening, and impact assessment, or what could happen, by analyzing information-fusion data in two dimensions: stages (local, distributed and network) and environments (air, ground and sea). Level 2 fusion data is detailed (for instance, where a ship is going and what it's carrying); level 3 data involves additional analysis (determining which ship contains a weapon of mass destruction, for example).

Also involved in the research are John Crassidis, associate professor of mechanical and aerospace engineering at the University at Buffalo (and the twin brother of RIT's Agamemnon Crassidis); Kevin Wyffels, an RIT mechanical engineering graduate student; Calspan-UB Research Center and L-3 Communications Corp.

The project is funded by a two-year, \$415,549 grant from the Office of Naval Research. ■

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Agamemnon Crassidis

Inventors reap rewards

The revenue stream created by the commercialization of RIT technology is growing, and an increasing number of inventors and authors on campus are sharing in the wealth.

According to RIT's Technology Licensing Office, \$296,000 in licensing revenues has been dispersed to 15 faculty, six staff members and three former faculty. In addition, equity interest in several start-up companies has been granted to three faculty, one staff member and a graduate student.

As part of its revenue sharing formula, RIT typically provides a 50-50 split of the proceeds after it recovers "allowable costs" incurred during the commercialization process. The university then reinvests its portion in support of additional educational and research programs.

Federal funding is frequently used to support the creation of intellectual property. In these cases, colleges and universities are required to share the

resulting revenue, but each is free to create its own distribution formula. Varda Main, RIT's director of technology licensing, says that ratio varies among institutions, but RIT is at the generous end of the spectrum. She hopes that will encourage the campus community to be active in the creation and commercialization of intellectual property.

"Participating in the patent process takes time, and that commitment is not often acknowledged in university promotion and tenure decisions, although this is starting to change across North America," explains Main. "This is an important way for RIT to acknowledge the significant effort put in by our inventors and authors."

Licensed technologies range from shrink-wrapped CDs licensed to end users to high-tech inventions that require further development before

Inventors, page 4

Alumni to be honored during RIT's Brick City Homecoming celebration

Honors will be presented during the President's Alumni Ball, Oct. 6

RIT's Outstanding Alumnus for 2006 is Joseph Loboza II. He'll be honored Friday, Oct. 6, at the President's Alumni Ball, a new event taking place during Brick City Homecoming.

"The Outstanding Alumni Award is RIT's most prestigious award for graduates," says RIT President Albert Simone. "It honors and recognizes people who have contributed to the university through their dedication, loyalty and leadership. Our 2006 recipient is a perfect example."

Also being recognized are two recipients of the Volunteer of the Year Award: James Macchiano, former Student Government president, and vice president Cory Hoffman. The two 2006 graduates are being recognized for their efforts to unify the campus community.

Loboza is the founder and CEO of JML Optical Industries, a Rochester company that designs, manufactures and distributes precision optical components and systems. He entered RIT's first Executive MBA class after he had already achieved success.

Completing his graduate degree in 1995 was just the beginning of his connection to RIT. He joined RIT's Board of Trustees in 1999 and

also is a director of the RIT High Tech Incubator Corporation and an member of the advisory board of the E. Philip Saunders College of Business. He earned the College of Business Distinguished Alumni Award in 2001 and the VandenBrul Entrepreneurial Award in 2003.

As vice chair of RIT's successful Powered by the Future campaign, he established the Loboza Executive-MBA Challenge Scholarship and the Loboza Optics Laboratory.

Loboza has served the United Way of Greater Rochester as board chair and campaign chair. In 2004, the United Way recognized him with the Alexis de Tocqueville Award. He is a trustee of the University of Rochester Medical Center and a former trustee of the Visiting Nurse Service. He is also a member of the Bishop's Stewardship Council of the Catholic Diocese of Rochester.

James Macchiano transferred to RIT from Broome Community College to study film and animation. He is now a full-time graduate student in the MBA program and serves as project coordinator for RIT's orientation program.

Hoffman earned a bachelor's degree in science and master's degree in mechanical engineering. He is now a quality engineer at Toyota Engineering in California.

The black-tie-optional President's Ball takes place at the Rochester Riverside Convention Center. ■

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Joseph Loboza '95



Cory Hoffman '06

Digging for the future of engineering technology



A. Sue Weisler | photographer

RIT officially broke ground on the College of Applied Science and Technology's Engineering Technology Building during a ceremony Sept. 19. Construction of the building, which will be built to the north of the B. Thomas Golisano College, is scheduled to be completed in December 2007. The building will open at the start of the spring quarter in 2008.

Several RIT officials and guests were on-hand to participate in the ceremony, including, from left, RIT trustee and president and chairman of REDCOM Laboratories Klaus Gueldenpfennig, Paul A. Miller Professor for Outreach Education and former College of Applied Science and Technology Dean Wiley McKinzie, RIT President Al Simone, RIT Board of Trustees chairman Mike Morley and Lenore Rosica, trustee of the William G. McGowan Charitable Fund.

News briefs

Consulting lecture, Oct. 5

Ron Kenett, founder, CEO and senior partner of KPA Ltd., an international management consulting firm, will discuss Aspects of Statistical Consulting Not Taught by Academia at 1 p.m. Oct. 5 in Xerox Auditorium in the James E. Gleason Building.

The talk, free and open to the public, is sponsored by RIT's John D. Hromi Center for Quality and Applied Statistics and the Kate Gleason College of Engineering.

Entrepreneurs to gather

Their paths will cross as David Koretz delivers the welcome address and Robert Fabbio gives the keynote lecture during RIT's Entrepreneurship Conference. Hosted by the E. Philip Saunders College of Business, the all-day event will be held during RIT's Brick City Weekend on Oct. 6, at RIT's B. Thomas Golisano College of Computing and Information Sciences, Building 70.

RIT's Entrepreneurship Conference offers presentations and panel sessions on financing business plans, commercializing technological innovations, and balancing the demands of building a business with personal needs.

The conference begins at 7:30 a.m. with breakfast and includes a luncheon with concurrent sessions running from 9:15 a.m. to 3 p.m. The cost for the conference/keynote lunch is \$75 and conferences are free for RIT faculty and staff (excluding luncheons and keynote address, which range in cost from \$10 to \$15).

For information, call 475-2199 or e-mail dslavin@saunders.rit.edu.

Anniversary celebration

The Department of Communication will host its 20th anniversary and alumni reunion celebration as part of Brick City Homecoming, Oct. 6. Past and present communication students will have the opportunity to network and discuss education and career paths during several discussion sessions throughout the day.

For a complete list of events and times for the anniversary and alumni reunion, visit the Web site at www.rit.edu/doc/bch.

Brick City concerts

Two performances by RIT performing ensembles will help celebrate Brick City Weekend. All ensembles will participate in the Kaleidoscope Concert and Brick City Homecoming 3:30 p.m. Oct. 7 in Ingle Auditorium, Student Alumni Union. The Gospel Ensemble Brick City Concert will take place at 7 p.m. on Oct. 7 in the Interfaith Center. For more information, call 475-6087.

Gosnell lecture, Oct. 11

Public policy expert Roger Stough will present a Gosnell lecture 3-4 p.m. Oct. 11 in the Golisano College auditorium, room 1400.

Stough, professor in the school of public policy at George Mason University, will give his talk, "Leadership and Regional Economic Development."

The lecture series, sponsored by Amit Batabyal, Arthur J. Gosnell Professor of Economics in the College of Liberal Arts, brings prominent scholars to campus throughout the year to give accessible, public talks that typically pertain to the environment.

For more information, call 475-2057.



A. Sue Weisler | photographer

Alfred Davis, also known as "Mr. RIT," continued his spirit of giving on Sept. 25. Davis, vice president emeritus at RIT, donated \$100,000 in the names of RIT President Al Simone, and his wife, Carolie, to Margaret's House to celebrate the child care center's 10th anniversary. The facility was built in 1996 after Davis provided a substantial gift in tribute to his wife, Margaret Welcher Davis. Here, Davis cuts the celebratory cake with Roxanne Birx, his great niece, who also cut the Margaret's House grand opening ribbon in 1996.

Staff awards Oct. 18

This year's Staff Recognition Awards, a university-wide awards program, will be held at 10 a.m., Oct. 18 in Ingle Auditorium, Student Alumni Union. The awards recognize the contributions of individual staff members and/or teams of co-workers whose work has had a major impact on the university, its goals, and its customers and who have excelled in the performance of their duties and created a positive environment for all members of the RIT community.

The program is sponsored and funded by the Office of the President and administered by RIT Staff Council.

The Staff Excellence Award recognizes staff members who have excelled in the performance of their duties as well as promoted team work and inspired excellence in others.

The Dancy Duffus Outstanding Citizenship Award recognizes staff members who consistently demonstrate a high degree of excellence, professionalism, and integrity in the performance of their duties and who have proven their willingness to extend themselves to help other members of the RIT community. The award was renamed in 2006 by the RIT Staff Council to honor Dancy Duffus, RIT trustee emeritus, who has long been a staunch supporter of RIT staff and who energetically advocated to estab-

lish this Staff Recognition program.

The Rising Star Award will be awarded to a staff member with three years or less of service to RIT as of May 1. The nominee embraces the RIT spirit and has made a unique departmental contribution.

This year's team nominees are: Brick City Catering Staff, Campus Campaign Committee for The Campaign for RIT, ECT ET Office Staff, Housing Operations Grounds and Custodial Team, HUB at Crossroads Team, ID Replacement Project Core Team, Industrial Programs Team at CIMS, ITS Helpdesk Staff, Micro-E Co-op Reps, NTID Student Records/ Registration Staff, Systems Modernization and Sustainment Team at CIMS and 2006 United Way Steering Committee.

The individual nominees are: Karen Barrows, Gail Brown, Sandy Buckert, Michael Burns, Stephen Campbell, Sean Cartwright, Sarah Cass, Jeffery Cox, Judy DeCoursey, Julie Dougherty, Candice Fischbach, Debra Fitts, Jennifer Freer, Ryan Giglia, Paula Guadalupe, Marie Haschmann, Janice Heard, Kerry Hughes, Linda Jones, Lyn Kelly, Julie Kurdziel, Lisa Markidis, Brenda Mastrangelo, Janice McGraw, Judy Offen, Diane Selleck, Cassandra Shellman, Melody Shust, Tina Sturgis, Russ Tripoli, Fran Versace and Catherine Washington. ■

Hammering it home



Mathematics Magazine featured Carl Lutzer on the cover of its October issue, illustrating the title of his article, "Hammer Juggling, Rotational Instability and Eigenvalues." Lutzer, associate professor in the School of Mathematical Sciences, uses the tool's twisting action when airborne to introduce students to a mathematical technique called linear stability analysis. The provocative title of Lutzer's paper caught the editor's imagination. He asked Lutzer to provide a photo with hammers. The photo shoot was challenging and nearly damaging: Juggling hammers on paper is one thing; in reality, it is another matter altogether. After 30 shots, Lutzer caught the hammers twice, dodged them 26 times and got hit twice.

Dave Londres | photographer

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Big Shot from page 1

reprise their roles as Big Shot coordinators for this 23rd Big Shot. "We are so excited to be traveling to an RIT site in Europe," says Bill DuBois, administrative chair of photographic arts in RIT's School of Photographic Arts and Sciences. "We will be photographing structures built in the 1400s that are not only historically significant, but absolutely beautiful. We hope that anyone planning to travel to Europe next spring would consider coming to Dubrovnik and being part of the Big Shot."

The Big Shot will take place on April 12. Big Shot coordinators ask that anyone planning to participate in the shot arrive in Dubrovnik no later than April 11. The average cost per person including accommodations and airfare would range between \$1,500 to \$2,000. Individuals would be responsible for booking their own flights and hotel accommodations.

To raise money for the overseas project, the School of Photographic Arts and Sciences will raffle off an entire set of matted 11 by 14 photographs of all 22 past Big Shots. The winner will also receive a copy of the Dubrovnik photograph. Past Big Shots have highlighted historical places including the Royal Palace in Stockholm, Sweden; the Alamo in San Antonio, Texas; and the World War II aircraft carrier, the USS *Intrepid*, docked in New York Harbor. Prints of all previous Big Shots are on display on the second floor of the Frank E. Gannett Building adjacent to the photo school's main office. Raffle tickets are \$10 each or \$25 for three, and can be purchased by calling 475-2863 or e-mailing dms2334@rit.edu. The winner will be announced Dec. 14. To learn more about the Big Shot visit www.rit.edu/bigshot. ■

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they are product ready.

RIT disperses licensing revenue twice annually—in January and July. "The inventors and authors who have received these disbursements are appreciative, saying this recognizes their efforts," states Main. "It's an incentive to continue their contributions to the institute and it offers professional affirmation of the value of their work beyond the educational process." ■

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Newsmakers

Raluca Felea, assistant professor of mathematics and statistics, presented "An FIO calculus for the marine seismic imaging" to the New Mexico Analysis Seminar in April. She also presented a poster to the Women in Mathematics: the legacy of Lady Zhenskaya and Oleinik workshop, in May, at the Mathematical Sciences Research Institute.

Dennis Glanton, lecturer in mathematics and statistics, gave presentations to high school and middle school staff at the Rush Henrietta Central School District on the integration of the software packages MathType and Microsoft Word in the PC environment for developing tests, quizzes and worksheets.

Jonathan Hollowell, adjunct professor of history, saw his book *Britain Since 1945* adopted as required reading by Harvard University's Department of Government for the study of Britain and British government during this academic year.

T. Alan Hurwitz and **Vicki Hurwitz** co-presented "Changes, Challenges and Conquests of Raising Deaf and Hard-of-Hearing Children" at the Cal-Ed Impact Conference in Fresno, Calif., a professional conference for educators, administrators, parents and support staff of deaf and hard-of-hearing children.

Satish Kandlikar, the James E. Gleason Professor of Mechanical Engineering, presented a series of lectures on electronics cooling with plain and enhanced microchannels, in May, at National Taiwan University and other universities in Taiwan. He presented a keynote paper, "Exploring Roughness Effect on Laminar Internal Flow: Are We Ready For Change?," at the Second International Conference on Transport Phenomena in Micro and Nanodevices, June 11-15, in Barga, Italy; and he co-chaired and presented seven papers with students at the Fourth International Conference on Nanochannels, Microchannels and Minichannels, June 19-21, at the University of Limerick, in Ireland.

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the document for future scholars. The accuracy of existing printed copies of the Sarvamoola granthas is unknown.

Mukund sought the expertise of RIT colleague Easton, who imaged the Dead Sea Scrolls and is currently working on the Archimedes Palimpsest. Easton, a professor at RIT's Chester F. Carlson Center for Imaging Science, brought in Keith Knox, an imaging senior scientist at Boeing LTS, as a consultant.

The scientists, joined by Ajay Pasupuleti, a doctoral candidate in microsystems engineering, traveled to India in December 2005 to assess the document, stored at a monastery-like mathas in Udipi, India. Sponsored by a grant from RIT, the team returned to the monastery in June and spent six days imaging the document using a scientific digital camera and an infrared filter to enhance the contrast between the ink and the palm leaf. Images of each palm leaf, back and front, were captured in eight to 10 sections, processed and digitally stitched together. The scientists ran the 7,900 total images through various image-processing algorithms using Adobe Photoshop and Knox's own custom software.

"This is a very significant application of the same types of tools that we have used on the Archimedes Palimpsest," Easton says. "Not incidentally, this also has been one of

the most enjoyable projects in my career, since the results will be of great interest to a large number of people in India."

The processed images of the Sarvamoola granthas will be stored in a variety of media formats, including electronically, in published books and on silicon wafers for long-term preservation. Etching the sacred writings on silicon wafers was the idea of Mukund's student Pasupuleti. The process, called aluminum metallization, transfers an image to a wafer by creating a negative of the image and depositing metal on the silicon surface.

According to Pasupuleti, each wafer can hold the image of three leaves. More than 100 wafers will be needed to store the entire manuscript. As an archival material, silicon wafers are both fire- and waterproof, and readable with the use of a magnifying glass.

Mukund and Pasupuleti will return to India at the end of November to give printed and electronic versions of the Sarvamoola granthas to the monastery in Udipi in a public ceremony in Bangalore, the largest city in the Karnataka region.

"We feel we were blessed to have this opportunity to do this," Mukund says. "It was a fantastic and profoundly spiritual experience. And we all came away cleansed." ■

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