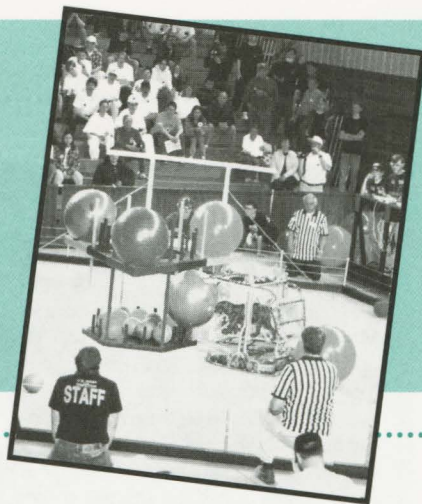


- 1 Nobel women to visit College of Science (see below)
- 3 Perspectives: Action is solution to apathy
- 3 Institute support a Clark family tradition
- 4 Profs design revolutionary submarine
- 1 Engineering House wins robotics event (see below)



## Nobel Prize winners to lecture, receive degrees

The College of Science invites the community to a lecture by two of the country's most distinguished female scientists, Gertrude B. Elion and Rosalyn Yalow. The speakers, both Nobel Prize winners, will share experiences from their lifetimes of pioneering research and achievements at 4 p.m., Fri., May 3, in Ingle Auditorium. Elion's topic is "Challenges and Rewards of Pharmaceutical Research," while Yalow will talk about "Radiation and Society."

In honor of their professional achievements, Elion and Yalow will receive honorary doctor of humane letters degrees from RIT during the lecture event.

Elion won the Nobel Prize for Physiology or Medicine in 1988, along with colleagues Sir James Black and George H. Hitchings Jr., for revolutionary drug research based on increased understanding of cell replication and growth. Her findings led to the development of drugs that combat acute leukemia, cancer, AIDS, gout and malaria,



Gertrude B. Elion

among other diseases. She is past president of the American Association for Cancer Research, has served as a presidential appointee on the National Cancer Advisory Board and has been elected to the National Academy of Sciences. She is a member of numerous professional societies, consultant to disease research organizations, a



Rosalyn Yalow

winner of many awards and honors and a mentor to young scientists.

In 1977, Yalow became the second woman ever—and the first American woman—to win the Nobel Prize in Medicine. She was honored for her development of radioimmunoassay, an application of nuclear physics in clinical medicine to quantify

concentrations of hormones and other substances in the body that had been previously unmeasurable. Yalow has earned numerous awards and honorary degrees, has more than 300 publications to her name, is a member of several professional fraternities and is a widely sought lecturer.

In addition to the lectures, Elion and Yalow will present awards to chemistry and biology students who were supported by funds from chemistry alumni and the Merck/AAAS grant. They will also talk with local high school students, via the Rochester Area Interactive Television Network, about opportunities for women in science.

Funding for the speakers is provided by the RIT Chemistry Department Alumni Lecture Series and a joint grant to the departments of biology and chemistry from the Merck Company Foundation and the American Association for the Advancement of Science.

## Engineering House champs of U.S. FIRST competition

Students in RIT's Engineering House returned to campus as the national champs of the 1996 U.S. FIRST Competition, "Hexagon Havoc," April 18 through 20 at Walt Disney World's Epcot Center. They will be honored at a White House Rose Garden reception with President Clinton in May.

The U.S. FIRST (United States Foundation for Inspiration and Recognition of Science and Technology) national tournament pits radio-controlled "robo-gladiators" against each other in "made-for-television" matches complete with referees, cheerleaders and time clocks.

The Harris Corporation-sponsored Tigerbolt team included 10 RIT students, staff adviser Dave Hathaway, operations manager in the College of Engineering, and 37 students from Rochester's Edison Technical High School. After seven weeks of hard work, the Tigerbolts turned a standard kit of parts into the fastest ball-dropping robo-gladiator in the country.

The Tigerbolt robot entered the tournament April 19, seeded 22 out of 74. With thousands of high school students cheering each other on, the robo-gladiators took their positions on the playing field. In two-minute matches, three robots, with their human partners, tried to score the most points by carrying, pushing or throwing balls into the central goal.

Winning three out of the four matches placed the Tigerbolt robot in the "Loser Bracket" double elimination tournament, but it won the one match it needed to qualify for the quarterfinals.

The tournament sped up in the quarterfinals as the eight remaining teams competed one-on-one to advance by winning two out of three rounds. The Tigerbolt robot aced the first two rounds, scoring the maximum possible 56 points. It quickly switched to defense, running the opposing robot into the ropes and blocking it from scoring.

The Tigerbolt team defeated the 1995 U.S. FIRST champs, the Sunny Delight team, in two fast rounds to advance to the semifinals.

During the final round, the 3,000-plus, standing-room-only crowd danced in the stands to "Macarena" and "YMCA" before the Tigerbolt robots faced off with the TOO ESY II robot, built by E-Systems and Lakewood High School students from Florida. "That robot wasn't nearly as easy as the name suggests," says Dennis Werster,

second-year student in mechanical engineering. Going head-to-head, each robot won a round before the tying the third. RIT won the tiebreaker match because its ball sat highest on the pile inside the goal.

"We're ecstatic. This whole competition is so good for engineering, so good for the country," says Hathaway. "There's nothing that reaches young minds the way this competition does and makes a difference in the kind of future they see for themselves."

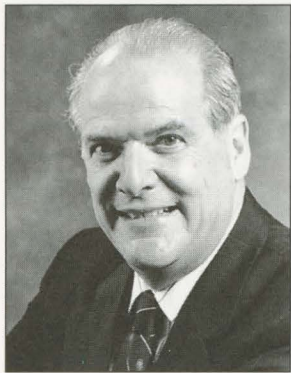
"One of the most important things I learned is how many people it takes to pull off a big project like this. You can't do it alone," says Werster. "No tree by itself can be a forest. We learned how to work together as an engineering team."

Other RIT students say it was a real confidence builder. "It's amazing to take something like a box of parts and engineer it into a national champion robot-athlete," says Michael Reilly, first-year printing management student. "I think applying engineering theories to this kind of project helps students struggling through chemistry, physics and calculus see the payoffs sooner."



U.S. FIRST Champs! Harris RF Communications-RIT-Edison Technical High School Tigerbolt team took first place April 20 at the national robotics tournament at Disney's Epcot Center.

## Rosett slated to retire as College of Business dean



Richard Rosett

Richard Rosett, who has led the College of Business the past six years, will retire July 1, after 30 years in academic administration.

An outspoken leader of business education, Rosett responded to industry's plea and integrated total quality across the college—into the curriculum and the teaching process. He transformed the college into a setting in which students are valued customers and teachers continually strive to improve both what and how they teach.

As dean, Rosett established the RIT/USA Today Quality Cup Award in 1991, which annually honors individuals and teams making exceptional contributions to their employers' quality programs. Under his leadership RIT became one of eight universities selected to participate in the prestigious Motorola TQM University Challenge, chosen for integrating total quality into their business and engineering curricula. RIT was one of just nine universities nationwide to win \$1.28 million from IBM to develop a total quality curriculum and apply quality principles to educational administration.

Other major accomplishments during Rosett's tenure include the college finishing tied for 37th among the top 50 undergraduate business programs in the 1996 U.S. News & World Report annual college rankings. The college began offering an executive MBA program in 1992, developed in conjunction with executives from such companies as Eastman Kodak and Xerox Corp. In 1991 the college, in cooperation with the U.S. Business School

in Prague, launched an executive MBA program in the Czech Republic, aimed at assisting the transformation of the Czech economy from communism to the free market.

"My work at RIT includes some of my proudest accomplishments and most cherished memories," says Rosett. According to Stanley McKenzie, provost and vice president for Academic Affairs, "RIT has been exceedingly blessed in having the academic leadership of Dick Rosett, not only in the College of Business, but throughout the university."

Rosett will remain active at RIT through continued involvement with the Quality Cup, the executive MBA program, the college's major gifts program, the IBM grant and the Prague MBA program.

According to McKenzie, the search process to replace Rosett is under way, with Acting Dean William Nowlin becoming interim dean July 1 until the search is complete.

## Choirs to perform *Carmina Burana*

The children's chorus from George Mather Forbes School #4 will team up with RIT's student choir to perform *Carmina Burana* at 3 p.m., Sun., May 5, in Ingle Auditorium in the Student Alumni Union. Carl Orff created the 20th-century choral masterpiece to use the singing voices of adults and children to cover a wide spectrum of the tonal scale.

Edward T. Schell III, associate professor of music in the College of Liberal Arts, and Lisa Ann Francesca, music teacher at School #4, will direct the performance. The show is free and open to the public. For more information, call -6087.

## Be in the chips at May 3 'Cow Bingo'

Cows don't ask for much. They just want some grass to eat, a field to roam in and a place to relieve themselves. A fraternity at RIT will provide a cow with the last. To raise money for the Special Olympics, Phi Sigma Kappa will set up a large, 1,000-square-foot bingo board on the field behind the Ritskeller. A cow will move around on the board from 4 to 8 p.m., Fri., May 3, for the "Cow Bingo" event.

Each square costs \$4 for students and \$8 faculty/staff. The person whose square gets fertilized wins. Secondary prizes will be awarded for adjacent squares. All money will benefit Special Olympics. The catered event coincides with the College Activities Board's block party and happy hour. For more information, call Scott Mail at -3898.

## Students exhibit glass at JCC gallery

A free exhibition, The RIT Glass Group Show, by eight graduate or undergraduate School for American Crafts glass students, opens with a public reception from 7 to 9 p.m., Wed., May 1, at the Germanow Coffey Gallery, Jewish Community Center, 1200 Edgewood Ave.

Students Luis Crespo (show coordinator and RIT teaching assistant), Jonathan Schmuck, Junichiro Baba, Kyung Chae, Doug Hallberg, Eddie Bernard, Eben Horton and Rob Lewis present a wide range of style and media, including a large-scale series referential to nature, cast and slump glass, neon and steel, constructivist pieces, small pedestal-sized "puzzle pieces," and blown-glass functional vessels.

The show runs May 1 through 29; gallery hours are noon to 6 p.m., Tues. and Thurs., noon to 8 p.m., Wed., 1 to 4 p.m., Fri., and noon to 5 p.m., Sun. Call 461-2000, ext. 243, or RIT's glass program office at -2650 for more information.

## Are these guys crazy? Come see May 10

Five madmen—Jim Karol, Stevie Starr, Harley the Lunatic, Todd Robbins and Balloon Man—will present their wacky show at 8:30 p.m., Fri., May 10, in Clark Gymnasium. They perform feats that range from regurgitating light bulbs to climbing into balloons.

Tickets are \$3 for students, \$5 for faculty/staff and \$7 for the general public, on sale for students through May 10, for faculty/staff through May 9 and for the public from May 8 through 9, from 9 a.m. to 3 p.m. at the Candy Counter in the Union. If tickets are still available, they will be sold at the door at 7:45 p.m., May 10. The sign-interpreted show, sponsored by the College Activities Board, has general seating. For more information, call -2509.

## College of Science ground breaking highlights trustees' meeting

One of the brightest, warmest days of the year enhanced a ground breaking ceremony for the new College of Science building and a reception outside Wallace Library that highlighted the spring meeting of the Board of Trustees last week.

The event also served as a time to thank the trustees for the generosity that enabled RIT to reach its \$11 million goal. Trustees gave \$8 million to ensure the campaign's success.

During the two-day session, Acting Dean Robert Clark provided a detailed analysis of how the College of Science addition will aid the teaching/learning process.

President Simone and Provost and Academic Vice President Stanley McKenzie shared information on the challenges and potential impact of the academic and administrative review now under way.

Another highlight of the meeting was a session on deaf awareness coordinated by NTID Dean and Interim Director James DeCaro. The program included education in the basic signs for communication with individuals who are deaf. This activity is expected to continue at future trustee meetings.

Federal legislative trends affecting higher education were presented by James Fabiani, president and chief operating officer, and Vincent Versage, senior vice president, of



A ceremonial ground breaking for the addition to the College of Science was held in conjunction with the recent Board of Trustees meeting. Speaking and participating in the "turning of the earth" were (left to right) Stan McKenzie, provost and vice president for Academic Affairs; interim Science dean Robert Clark; President Simone; computational mathematics major Karen L. Provinski; and Board of Trustees chairman William A. Whiteside Jr. Construction begins this month, with completion scheduled for the fall of 1997.

Cassidy & Associates of Washington, D.C. Mary Ann McLean, an attorney and consultant on capital public affairs in Albany, provided a comprehensive assessment of New York legislative trends.

A resolution was passed thanking Nathan J. Robfogel for his service on the board. Robfogel will resign his post July 1 to become RIT's vice president for Development and Government Affairs.

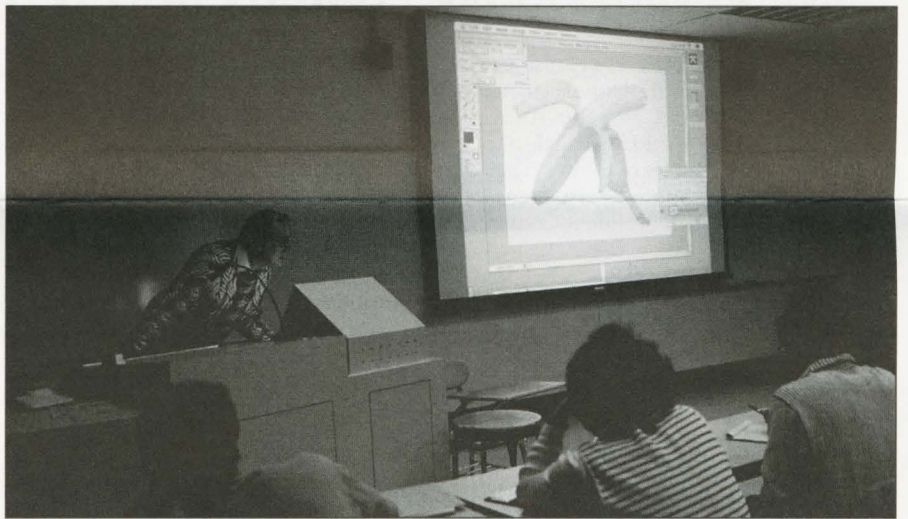
## 'Smart' classroom brings modern audio-visual technology to Imaging Arts and Sciences students

In the age of information, having "smarts" applies to more than people. We've all heard of "smart" cars and houses in which technology consolidates functions, allowing more process with less space and effort.

A similar concept just blossomed into RIT's first full-blown "smart classroom," housed in the College of Imaging Arts and Sciences. Thanks to on-campus partners and ongoing support from the Educational Technology Center and Information Systems and Computing, the CIAS cross-curricular committee brought a "smart" idea to technological reality in room 1420 of the Booth Building, adjacent to Webb Auditorium.

The multi-use technical classroom boasts a large teaching station filled with Macintosh computer apparatus (secured by key and code access), a VCR and, soon, an IBM system and visualizer that will transmit images of anything placed under the camera to the room's 10-foot screen. Professors can run discs and CD-ROMs, access the Internet and campus file servers, attach a laptop or a CAD machine, show videos via a ceiling-mounted projector run by the Mac station and beam all of the above on screen—ideal for modern "show and tell" in a large class.

"This came out of an initiative begun this fall by Dean [Margaret] Lucas to create a facility for technical curriculum delivery," says Terry Bruce, director of operations for CIAS. "It represents a highly cooperative effort among the college, ETC,



Dave Dickinson, professor in the School of Art and Design, hails the new "smart classroom" as "very useful." In its test quarter, the newly "smartened" room offers good visibility for a large class without going to an auditorium, as well as the advantages of sharing student work via SyQuest on screen.

ISC, Campus Safety, the Registrar's Office and Physical Plant," he says.

Nearly 100 percent in use, for both the "smart" aspects and for normal classes, the room eases AV hassles, says John Retallack, a professor in the School of Photographic Arts and Sciences.

Early versions of computerized classrooms exist in the college of Business, Science and Engineering, says Chris Geith, associate director of ETC. The newest version comes closest to ETC's vision for the

"ultimate smart teaching station." "Plans are on the drawing board for other 'smart' rooms, including 'smart labs' and 'smart studio classrooms,'" she adds.

Within six months, adds Bob Gascon, engineering manager for ETC, phase two of the CIAS version will add touch-panel controls and an IBM PC. "This fits CIAS's needs. For each smart classroom, we'll custom design the setup," he says. New "smart classrooms" outfitted to client needs and budget will soon appear in other areas.

## Students to participate in Furniture Fair

It takes years of education and application to produce quality furniture. Alumni and students from the industrial design and the woodworking and furniture design programs at RIT know what it takes to build and design great furniture, proven by the attention they've received over the years.

This year, for the third time, students and alumni will participate in the International Contemporary Furniture Fair, May 18 through 21, at the Jacob Javits Center in New York City. They will have the chance to display their work while joining hundreds of works by accomplished designers, manufacturers and artisans. More than 10,000 people visited last year's fair; 400 exhibitors displayed their work.

The ICFE is an annual event bringing furniture designers together from throughout the U.S., Canada and Europe. The 1996 RIT exhibit will showcase, in an 8' x 20' booth, quarter-size models of modern

chair designs by industrial design students in the School of Art and Design, as well as full-size pieces of handcrafted furniture from School for American Crafts woodworking students. Combining the two programs gives a greater understanding of the complete range of steps involved in furniture production.

"The important component is the student participation in setting up the show, interacting with professionals and taking down the show," says Rich Tannen, the woodworking associate professor who arranged RIT's first year participation and co-coordinated the 1995 display. "It gets them used to a future in the field." Craig McArt, industrial design professor and co-coordinator of the RIT exhibit, says, "This is a wonderful opportunity to display RIT's program and talent diversity." For more information on the exhibit or students, call -5721.



SPRING QUARTER... Sigma Pi fraternity brothers rolled in \$1,050 to benefit Rochester Area Multiple Sclerosis during its 10-mile MS walk April 21.

## Perspectives: Action is the only cure for apathy



Alfreda Brooks

By Alfreda Brooks  
Chair, Commission for Promoting Pluralism

In the world we live in now, especially here at RIT, apathy has taken root. Apathy is in the faces of students, faculty, staff and administrators. Their expressions say, "No matter how hard I try, nothing ever changes. ... What can I do? What should I do? I don't know what to do."

Apathy is in the air—like a low-lying cloud that has settled among us—and we are all affected as we breathe it in. It's evident in the lack of participation and attendance at events and activities. It can be seen in people who become angry and grumble amongst themselves about the changes thrust upon them. It is apparent in the lack of communication—conversations that should take place to reach a level of understanding about issues in the campus community.

Whose job is it to rid the air of apathy? The administrators? The president's? Any one constituent group's? Not necessarily. It is your job and mine, each of us, to do something about it.

RIT is going through experiences similar to those confronting other educational institutions and businesses—assaults on programs like affirmative action, race-based scholarships and grants; the elimination of academic programs; downsizing; hostility toward immigration; stagnant wages and forced retirement; increased tuition and fees; cost-of-living increases. These issues weigh heavily on the minds of many people, causing apathy to grow. Nearly everybody, everywhere, is in a state of flux.

RIT's challenges are not unusual; they are the norm for this time in history. Yet we know that we cannot allow apathy to continue. Unchecked, it leads to reduced motivation, depression, poor time management, decreased productivity, loss of concentration, failing grades and work performances, hot tempers and bad

attitudes. This is truly a state of regression that can lead to severe consequences.

All need not be lost if we unify as people and integrate ourselves as individuals—and decide to change our attitudes. Last year's speaker at the Martin Luther King Celebration, Dr. James Forbes, asked people to join the "Do Something Club." Anyone can become a member; all that is needed is a desire to bring about positive change. Unifying ourselves is the key to curing the contagious disease of adverse behavior.

Rather than living with what we see as bad taste or misguided behavior, we need to voice our concerns. There are ways of getting your voice heard. Each member of the RIT community is a member of a constituency. Staff Council, Academic Senate and Student Government represent the majority of the campus community. Those organizations exist to hear your concerns and take them to the decision makers. When we hear or see something we think is wrong—for example, racial slurs smeared on campus buildings when a controversial speaker visits—we should readily address it. Why did it happen? What do we do? The appeal of the "Do Something Club" is its invitation to get involved, to volunteer, to address concerns.

Some say the greatest issue on campus is racial discrimination. Some say it's a lack of people and resources to get the job done. Some say it's the quarter system and its drawbacks. Others blame a lack of direction from management. Put it all together and it spells "apathy." Yet if we all face the same issues, we aren't very different; that alone should unify us. If we all agree something is wrong, how can there be any room for tolerance of it? We must first recognize the indifference revealed in our attitude. Rather than living with a lack of motivation, we should "do something" about it.

We need to treat each other as humans. Indifference is not the way to express care and concern. It takes all of us to create a community. As the familiar quote says, "If you don't like something, change it. If you can't change it, change the way you think about it." We may not be able to change some things, but if we change our thinking, we can deal with the things we can't change more positively. Optimism is a real virtue, adding great value to our culture. We should strive to become more optimistic in our approach when handling these difficult days. It is time to join the "Do Something Club"—don't you agree?



"WE CAN'T BE ALL THINGS TO ALL PEOPLE" ... President Simone discussed curricular review with an impromptu gathering of 200 students, mostly in the art programs, April 22 in the Eastman Building lobby. Provost Stan McKenzie explained the year-long review process of 156 academic programs with criteria of centrality, quality, financial viability and marketability. Students expressed opinions such as "The reason we came here is to be marketable," "Are we nonessential? Let us demonstrate our marketability." Students met in large and small groups throughout the week to discuss ways to convince the administration not to reduce programs.

## Institute support a lasting legacy of Clark family

When George Eastman asked George H. Clark to become a director of the Rochester Athenaeum and Mechanics Institute in 1910, he set in motion a lifetime of support for the Institute that was passed on from generation to generation. More than eight decades later, the Clark family legacy is as strong as ever at RIT.

The family's most recent financial gift, representing the proceeds from a charitable trust established by Brackett H. and Ruth M. Clark, went toward the Adele Hathaway Clark Memorial Scholarship Fund. One of the largest endowed scholarships at RIT, the fund was established in 1954 by George and Adele's son Brackett in honor of his mother. The scholarship annually provides tuition assistance to students from any program, with 12 students receiving scholarships from the fund this year.

"We are deeply appreciative of this gift, which contributes to the perpetuation of the memory of two individuals who were a vital part of RIT's history," says President Simone. "The Clark family's contributions of financial support and personal involvement have been an integral part of the Institute's success."

In addition to the Adele Hathaway Clark Memorial Scholarship, Brackett H. and Ruth M. Clark also provided funding for another of the largest endowed scholarships at RIT, the Alfred L. and Ruby C. Davis Scholarship. The Davis Scholarship encourages leadership and involvement in student activities, provides financial aid to adult students in the College of

Continuing Education and supports international students in any RIT program. In the tradition of Clark family support, Peter Bourne, grandson of Brackett and Ruth, provides plaques for the Davis Scholarship recipients each year, and members of the Clark family attend the annual awards luncheon.

"The Davis Scholarship Fund exemplifies the Clark family's commitment to helping RIT students succeed," says Helene Manglaris of the Center for Campus Life. "Over the years, the fund has provided encouragement and support to those students who have demonstrated significant effort toward the improvement and quality of campus life at RIT."

The many other programs and projects the Clark family have contributed toward include the Clark meeting rooms; the George H. Clark Gymnasium, RIT's first athletic facility; the Access to the Future, 150th anniversary, new campus and Wallace Library addition campaigns; the Rose

Scholarship; the RIT Women's Council; and the Nathaniel Rochester Society.

Highlighting the family's active participation in the life of RIT is 86 years of continuous membership on the Board of Trustees. George H. Clark was a trustee from 1910 to 1953; his son Brackett H. served from 1933 to 1986; and Brackett's daughter, Mary Lu Brooke, is in her 20th year as a trustee.



STANDING OUT... RIT's Outstanding Undergraduate Award recipients pose with Stan McKenzie, provost and vice president for Academic Affairs.

### CORRECTION

The article "Staff compensation addressed at meetings" in the April 18 *News & Events* contained an error. A sentence should have read "Staff already above the maximum of their level could receive 'bonus pay' up to 1.5 percent if they are outstanding performers."

## Donate old car, get tax deduction

Avoid the hassle of getting rid of your old car. Donate it to RIT, receive a tax deduction and help a worthy cause. RIT has joined 300 other non-profit organizations in New York State in forming a relationship with Charity Fundings, an organization that accepts gifts of used vehicles, auctions them and gives the proceeds to a designated charity.

The procedure is simple. Take the car to 522 Trolley Blvd., sign over the title to Charity Fundings and ask that RIT be listed as the "designated charity" on the IRS tax receipt. Charity Fundings will give you a copy of the page from the National Automobile Dealers' Association book showing the average value for the car. You place a fair value on your car for tax purposes and reap the benefits at tax time.

## Pianist performs May 10

The Emerging Artists Concert Series presents a piano recital featuring Eleonora Lvov at 8 p.m., Fri., May 10, in Ingle Auditorium. RIT's new concert series, conceived by David Perlman, associate professor of electrical engineering, offers the RIT community a sampling of classical music and jazz through campus performances at affordable prices.

Tickets to the Lvov concert are \$4 for students, \$8 for faculty, staff and alumni and \$12 for the general public. Tickets are available from the Student Alumni Union Candy Counter or at the door if seats are still available. For phone credit card orders (MasterCard or Visa), call -2586.

Patrons of the Emerging Artist series can take their ticket stubs to the Rochester Philharmonic Orchestra or GeVa box offices to receive a 20 percent discount off any performance. For more information about the concert series, call Perlman at -2388.

## Faculty/staff gathering planned

Join your fellow faculty and staff members at a year-end celebration from 4 to 6 p.m., Fri., May 10, at the Ritskeller. "Mystery" bartenders will serve up your favorite drinks at the cash bar. Dig into the Ritskeller's spread of free munchies (more than the standard popcorn fare) and join in specially planned stress reduction activities. The happy hour, coordinated by RIT's United Way Steering Committee, Personnel and RIT Food Service, is free and open to all employees. All bartender tips will benefit the RIT Employee United Way Campaign.

## Drive to benefit scholarship fund

The alumni brothers of Alpha Phi Omega, Xi Zeta chapter, have announced a fund-raising drive to benefit the A. Stephen Walls Memorial Scholarship Fund at RIT. Walls, former coordinator of intramurals and assistant professor in the Department of Physical Education, served RIT for 15 years as director of Student Activities, director of the former College-Alumni Union and faculty adviser of APO.

The Walls Memorial Scholarship Fund, established in 1980, is awarded to student athletes who demonstrate outstanding leadership qualities in athletics and campus life. Those interested in contributing to the fundraiser should call Vicki Dodds in the Development Office at -6566, or contact Thomas J. Recktenwalt, a 1965 APO alumnus, at 513-236-4789 or e-mail at gyrn26A@prodigy.com.

## C A L E N D A R

May 2-3—Tollbooth to raise funds for Monroe County Center for Youth Services, sponsored by Phi Kappa Tau fraternity; Quarter Mile

May 3—music: Brendan McNaughton and The Inbetweens; 5-7 p.m., Gleason Quad; \$1; interpreters requested

May 3—music: Gin Blossoms with opening act Tommy Keen; 8 p.m., Ritter; \$7 student, \$10 faculty/staff, \$15 public

May 3—sports: baseball vs. Hilbert; 1 p.m.

May 3—lecture: Nobel Prize laureates Rosalyn Yalow and Gertrude Elion on Women Nobelists; part of Chemistry Alumni/Merck Grant Lecture Series; 8 a.m.-7 p.m., College of Science

May 4—Block Party Weekend, sponsored by Residence Halls Association; includes Velcro wall, moon walk and "Battle of the Bands" in Gleason Quad; noon, residence hall quads

May 4—sports: men's tennis vs. Elmira; 1 p.m.

May 4—sports: baseball vs. St. Lawrence; 1 p.m.

May 4—music: RIT Gospel Ensemble Anniversary Concert; 7:30-10 p.m., Allen Chapel, Schmitt; interpreter provided

May 5—sports: softball vs. Hilbert (2); 11 a.m.

May 5—music: *Carmina Burana*, presented by RIT Choral Ensemble and Instrumentalists; 3 p.m., Ingle; free

May 6—workshop: "Effective Test Taking," part of Lunch N' Learning Series; noon-12:50 p.m., 2383 Eastman; interpreters must be requested by participant

May 7—lecture: "Focus on the Rochester Riverside Convention Center" by director Joe Floreano; sponsored by RIT Travel and Tourism Club; 5 p.m., Henry's

May 7—music: RIT Brass Quintet; 5-7 p.m., The Commons; free to students

May 7—meeting: Student Government Senate; 12:30-2 p.m., 1829 Room, Union

May 8—meeting: Nathaniel Rochester Society Program Committee; noon-1:30 p.m., 1205 Johnson

May 8—Eisenhart Recognition Dinner; reception 5 p.m., dinner 6 p.m., Fireside Lounge, Union

May 8—music: Karaoke Capers; 5:30-7:30 p.m., The Commons; free, interpreters requested

May 8—meeting: Policy Council; 3-5 p.m., 1320 Hale-Andrews

May 9—workshop: "Memory Improvement," part of Lunch N' Learning Series; noon-12:50 p.m., 2383 Eastman; interpreters must be requested by participant

May 10—music: recital featuring Russian pianist Eleonora Lvov, part of Emerging Artists Concert Series; 8 p.m., Ingle; \$4 students, \$8 faculty/staff/alumni, \$12 public

May 10—lecture: "ASL in Society: A Sociolinguistic Look at ASL" by Deirdre Schlehofer, coordinator and senior lecturer of ASL program at University of Rochester, part of ASL Cornucopia 1995-96 NTID ASL Lecture Series; noon-1 p.m., Panara

May 14—meeting: Student Government Senate; 12:30-2 p.m., Clark meeting room, Union

May 14—music: vocalist LuAnn Arena; 5-7 p.m., The Commons; free to students

May 15—entertainment: psychic Sheila Hand; 5:30-7:30 p.m.; free to students, interpreters requested

May 16—meeting: Staff Council; 2-4 p.m., 1320 Hale-Andrews

May 17—Senior Night; Union lobby

## Professors' submarine could revolutionize underwater exploration

A newborn at 5'6" and 170 lbs., it sees the ocean as its fishbowl. Named *Fetch!*™ by its creators, this new type of autonomous underwater vehicle (AUV) can dive to 1,000 feet at the touch of a computer key.

Jim Sias, industrial design professor in the School of Art and Design, and Mark Patterson, oceanographer, electronics expert and professor in the College of William and Mary's School of Marine Science, spent three years bringing *Fetch!* to completion. This spring, they announced its custom-designed availability to the general world waters research market.

From deep lakes to the murky New York harbor, versions of *Fetch!* can affordably explore and document underwater areas previously limited to clunky, ship-tethered devices, says Sias, president of Sias/Patterson, Inc. "This is the world's first commercially available AUV," he notes. He and his partner manufacture the



RIT industrial design professor Jim Sias with aquatic creature, *Fetch!*—an autonomous underwater vehicle he and partner Mark Patterson recently constructed.

torpedo-shaped devices, controlled by laptop computers and made with off-the-shelf parts. They are upgradable; at a client's request, they may include a fluxgate compass, GPS receiver, packet modem and

transceiver, scanning sonar, color video camera, RISC computer and National Instruments LabVIEW.

"Missions for *Fetch!* are limited only by your imagination," says Sias. It uses a sensor mount (SensorCone™) that can carry whatever sensors the customer desires, communicating via a secure packet modem. "We designed it to be light, portable and adaptable. One person can launch it, and it breaks down into parts weighing less than 40 lbs."

Inspired by a challenge and a mutual love of the ocean, Sias and Patterson invented the AUV for obvious uses like oceanographic research, geological surveys, under-ice operations, marine mammal studies and littoral zone reconnaissance. "*Fetch!* could help with ocean temperature studies and chemical content research, survey coral reefs—even go under the Antarctic shelf, which has been a human impossibility," says Sias.

*Fetch!* can conduct exploratory missions in risky areas while reporting back on its secured radio channel. It's potentially dangerous work, done before only by large ships launching tethered "Jason"-type vehicles—or by trained dolphins.

"With *Fetch!*, scientists don't have to worry about getting any cables tangled or about endangering dolphins," adds Sias, noting that *Fetch!* has all its "smarts" on board. Its reliability factors include a low-weight two-piece aluminum hull with stainless steel O-ring seals and fittings.

Such facts and figures make up the magical "stuff" of what Sias has taught in RIT's industrial and interior design program for 19 years. An industrial designer with 27 years' experience, he has equal passion for his design work and his teaching. "I like to think my students benefit from my industry work," he says. His consulting practice keeps him well prepared to expose students to real-world projects, often bringing in industry mentors to challenge his classes.

Patterson has 17 years in design and fabrication of underwater instrumentation and actually lived in an underwater sea lab. He was the first American to use computers in that environment. "We [he and Patterson] make a great team. He works in this happy heap of papers and wires, figuring out the electronics, and I keep an eye out for the overall design," says Sias.

## Student-produced TV show to be distributed nationwide

National airwaves have found student works from RIT's film/video program these days—through *RIOT-TV*. An RIT-produced series, *RIOT-TV* showcases student works for local and national cable access channels and distributors.

"*RIOT-TV* was begun to provide a bigger audience for the students' work and to educate the public on the variety of entertainment that's available," explains Cat Ashworth, visiting film/video professor at RIT and founder of *RIOT-TV*.

Finishing its second season, *RIOT-TV* started broadcasting on local cable access stations. This year, two national distributors for cable access programming—Offline and Free Speech TV—picked up the series of 12 half-hour programs, each presenting short works produced at RIT. Works include traditional and computer animation, live action narrative and experimental work, and documentaries.

This year's programs included a wide variety of films, such as *Effective*

*Advertising*, an experimental documentary by Dana Heffern exploring the cosmetic industry and its effect on women's self-images. *Days of Awe*, a self-reflective documentary by Edan Cohen, documents his struggles to make a film while reflecting on his religious beliefs and family relationships. On the lighter side, Ted Pratt's animated film *Strangers in The Night* explores the mystery of the missing sock.

"Free Speech TV broadcasts selected works from the programs we send them, mostly documentaries," says Ashworth. Free Speech TV also pays students a distribution fee for work chosen to appear on the coast-to-coast showcase.

"It's free exposure on TV. Why wouldn't you want to take advantage of that?" says Chris O'Connell, graduate teaching assistant to Ashworth. He and Ashworth constantly look for more student submissions to *RIOT-TV*. O'Connell has high hopes for the series, including a media exchange program with other schools, complete with competitions and awards. He runs the marketing and publicity for the series, though Ashworth hopes to eventually see it completely student run.

Ashworth believes in the dynamic future of the series: "There is a lot more potential for the program, including satellite opportunities through the National Association of College Broadcasters and the Student Film Network."

*RIOT-TV* airs locally on RCTV-Channel 15 (Rochester) on Sundays and Tuesdays at 11:30 p.m. and on both Brighton-Henrietta's Channel 15 and Finger Lakes' Channel 12 on Tuesdays at 8:30 p.m.

Any RIT students interested in having film/video work shown on *RIOT-TV* should contact Ashworth in the film/video department.

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## DEATHS

Deborah Bourcy, finance manager of the Food Service Department, died suddenly April 23. She joined RIT in 1978, holding a number of positions in the Purchasing Department before joining Food Service in 1990. Her father, Ralph Spoor, worked in RIT's Physical Plant for many years.

Bourcy earned a BS degree in business administration from RIT in 1984. She is survived by her husband and two daughters, ages 8 and 13.