

# Campus News

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Published by the Office of University Communication for the Case Western Reserve University community

school of Dentistry

## Researchers discover oral defenses against AIDS

by Susan Griffith  
(susan.griffith@case.edu)

Researchers at Case Western Reserve University and the Cleveland Clinic have discovered a way that the mouth may prevent the contraction of HIV.

The findings, which are reported in the October 28 issue of the international journal "AIDS," hold potential for discovering new ways of preventing AIDS and other infections in the body, according to the researchers.

With the lining of the mouth constantly under attack by a barrage of bacteria that commensally lives and grows in the mouth, the lining of the oral cavity has put up an innate and formidable

defense line of peptides called human beta defensins 2 and 3 (hBD2 and hBD3) that may prevent humans from getting sick and may promote rapid healing from food abrasions or accidental bites to the tongue and mouth.

"It is the unique properties of the good bugs found in the mouth that are inducing the expression of hBD2 and 3," said Aaron Weinberg, director of research at the Case School of Dentistry. The study, entitled "Human Epithelial Beta Defensins 2 and 3 Inhibit HIV-1 Replication," was the result of a 12-member research team, including Michael Lederman, an internationally known AIDS researcher from the Case School of

Medicine, and Miguel E. Quinones-Mateu, the first author on the paper and a virologist from the Lerner Research Center at the Cleveland Clinic Foundation. Their recent discovery, which went on the fast track for publication in "AIDS" is the result of a National Institute of Health-funded study on oral defenses against AIDS, of which Weinberg is the principal investigator.

The discovery suggests that the small peptides produced by cells lining the oral cavity bind to the viral particles directly and can even regulate important receptors the virus uses to infect human cells.

Since the 1990s, Weinberg, a dentist and microbiologist at the

Case School of Dentistry, has been studying the natural defenses found in the mouth and how they react to bacteria and viruses.

These latest findings were driven by Weinberg's curiosity about the knowledge that HIV, which leads to AIDS, is rarely contracted through the mouth.

While human beta defensins, particularly hBD-1, are found throughout the body's skin and epithelial cells to ward off general infections, it was hBD2 and hBD3 in the normal lining of the mouth that responded to HIV.

Weinberg said that hBD2 increased by almost 80 fold in the presence of HIV introduced to a monolayer of human oral epithelial

cells grown in the lab and maintained their response rate for 72 hours—long after the time the virus could live in the conditions in the mouth.

Information gained from the study, according to Weinberg, has the potential to develop new medical interventions using natural products, such as those being isolated from the "good oral bugs" that induce hBD2 and 3, in other sites of the body that are more susceptible to HIV infection. These products also have the potential as a coating on catheters, intubations and implants to prevent secondary infections within the body, which result in annual health care costs of over \$15 billion.



photo by Mike Sands

### Grand opening

Pulitzer Prize-winning and nationally syndicated columnist Ellen Goodman (left to right) joins Case Western Reserve University Interim Provost Lynn Singer, Case President Edward M. Hundert and Dorothy Miller, director of the university's new Center for Women. Goodman was the keynote speaker for the center's grand opening celebration. The event, in Thwing Center, where the new Center for Women is located, included a symposium, luncheon, dedication ribbon-cutting and day-long open house.

school of Engineering

## Scientists to test protein as early cancer detection agent

by Marci E. Hersh (marci.hersh@case.edu)

Scientists at Case Western Reserve University have identified an agent that could lead to the early detection of many cancers.

The Case research team discovered that the human body increases production of the protein clusterin as a signal of cell distress and provides a reliable gauge of the general health of a cell. These findings were reported in a recent issue of the scientific journal "Cancer Biology and Therapy."

"Understanding the processes that create this protein after radiation therapy or other treatments for cancer is important in our quest to develop new therapy regimens that improve the chances of recovery," said David Boothman, professor of radiation oncology and pharmacology and associate director of basic research at Case and University Hospitals of Cleveland.

According to the study, clusterin should behave in blood as it does in cells examined in the laboratory. The team observed clusterin levels rise

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school of Medicine

## Case, UH team finds genetic link to common colon cancer

A team of researchers from Case Western Reserve University and University Hospitals of Cleveland (UHC) have identified a specific location on a human chromosome that can be linked to familial cases of colon cancer, the kind of colon cancer that tends to run in families.

Research published this month in the "Proceedings of the National Academy of Sciences" (PNAS article #2286) identifies a specific stretch of DNA on chromosome 9 that houses a "susceptibility" gene.

"Previous studies have shown that colon cancer risk can be inherited," said principal investigator Sanford Markowitz, a professor of cancer genetics at Case and a Howard Hughes Medical Institute investigator who also treats patients at University Hospitals Ireland Cancer Center. "By analyzing blood samples from 53 families, in which at least one member of the family had a colon cancer or pre-cancerous colon polyp, we were able to find a common link. This moves us much closer to developing a blood test that will identify people who are susceptible to colon cancer well before the cancer ever develops."

Georgia Wiesner, director of the Center for Human Genetics at Case and UHC and lead author of the study, said at least 200 genes exist on this particular location on chromosome 9. "Future research will focus on finding the one responsible gene," Wiesner said. "The research team is looking for more sibling pairs and family members for the crucial next phase of the study, the actual identification of the disease-causing gene."

In addition to Markowitz and Wiesner, the research team includes Robert Elston of the department of epidemiology and biostatistics at Case and Joseph Willis of the department of pathology at Case and UHC. The study received significant support from the National Cancer Institute, the National Colon Cancer Research Alliance of the Entertainment Industry Foundation and the Howard Hughes Medical Institute.

Anyone interested in participating in the next phase of the "Sibling Study" should contact the Ireland Cancer Center Information Service at UHC at 1-800-641-2422.

## Inaugural presidential fellows named

As part of its effort to transform liberal education, Case Western Reserve University has appointed a group of 13 individuals as its inaugural group of SAGES Presidential Fellows.

The Seminar Approach to General Education and Scholarship (SAGES) is an undergraduate experience designed to establish the foundations for academic inquiry. The program features small seminars and intensive advising and incorporates seminars delivered by eminent scholars and accomplished experts in their fields.

The fellows will lead seminars that contribute to the transfor-

mational learning environment Case is creating for its undergraduate student body. In addition, the fellows will be responsible for conveying a sense of responsibility and service to the students.

"The SAGES program being developed by our faculty is truly inspirational," said Case President Edward M. Hundert. "Through the creation of our Presidential Fellows program—funded entirely through alumni support—SAGES becomes not just an undergraduate initiative but a higher education initiative as our undergraduates get the unique experience of intensive, intimate seminars led by our remarkable undergraduate faculty as well as

faculty from our professional schools and the greater Cleveland community."

The inaugural class of Presidential Fellows are: the Rev. Clover Reuter Beal; Nathan A. Berger; Michael Cunningham; John Ferry; Lee Fisher; Sam Fulwood III; Mark Hans; Richard B. Nelson; Wendy Shapiro, Lev Gonick and Roger Bielefeld; Chris Sheridan; and James Simmelink.

The Presidential Fellows feature university faculty, including two from Case's dental school: Hans, associate professor and chair of Case's department of orthodon-

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# Calendar

The deadline for submissions to each issue of Campus News is 10 days prior to the publication date. Please check the deadline schedule at <http://www.case.edu/pubs/cnews/0304pubs.htm>.

Submit your items to the University and Campus News calendars online at <http://www.case.edu/CWRUEvents/>, or submit items only for the Campus News calendar to Maria Wolf via e-mail at [mew15](mailto:mew15), via voice at 368-4440 or in person or via campus mail to 14 Adelbert Hall LC: 7017.

## Lectures



**Thursday, October 30** . . . Anton and Rose Zverina Lecture: "The Dracula of Medical Technology: Re-assessing the Artificial Heart Twenty Years after Barney Clark." Shelley McKellar. Sponsored by the Ditttrick Medical History Center. RSVP required by October 27. Herrick Room, Allen Memorial Library, 6 p.m. Contact: 368-6391 (*jme3*).

**Thursday, October 30** . . . Art History and Art Seminar: "The Evolution of an Idea: A Discussion on Multiplicity in Baccio Bandinelli's 'Hercules and Cacus.'" Michael Morford. Lecture Hall, Cleveland Museum of Art, noon. Contact: Debby Tenenbaum, 368-4118 (*dxt6*).

**Saturday, November 1** . . . Cleveland Museum of Art Aki Festival of New Music: "The Little Big Land of Music-A composer's View." Olli Kortekangas. Cleveland Museum of Art, 1:30 p.m. <http://www.clevelandart.org>. Contact: 371-3457.

**Thursday, November 6** . . . "Measuring Time. Frequency and Sound in 1900." William Fickinger and Peter Hoelke. A special demonstration lecture on early physics research done at Case. Shankland Lecture Hall, Rockefeller Building, 4:15 p.m.

## Seminars, meetings & conferences



**Thursday, October 30** . . . Chemistry Colloquium: "New Approaches for the Selective Functionalization of Hydrocarbons with Homogeneous and Heterogeneous Catalysts." Don Tilley. Refreshments, 4:15 p.m., Clapp Hall balcony, 108 Clapp Hall, 4:30 p.m. <http://www.case.edu/artsci/chem>. Contact: Pat Eland, 368-3622 (*pme2*).

**Thursday, October 30** . . . Center for Women Creative Writing Group: 303 Thwing Center, 7-8:30 p.m. <http://www.case.edu/provost/centerforwomen>. Contact: Ginnette Boyarko, 368-0985 (*geb9*).

**Thursday, October 30** . . . Epidemiology and Biostatistics Research Seminar: TBA, Andreas Ziegler, E501 School of Medicine, noon. Contact: Donna Marine, 368-3197 (*dmm33*).

**Thursday, October 30** . . . Biochemistry Seminar: "Neurobiology and Regulation of Dopamine Receptors." David Sibley, E501 School of Medicine, noon. Contact: Shakeenah Bari-Harold, 368-3334 (*sbx84*).

**Monday, November 3** . . . Skeletal Research Center Seminar Series: "Does Wnt regulate chondrocyte expression?" Katsuhiko Nishioaka, 123 Millis Science Center, 4 p.m. <http://www.cwru.edu/artsci/biol/skeletal/>. Contact: Debbie, 368-3562 (*ddb9*).

**Monday, November 3** . . . Physiology and Biophysics Seminar Series: "Renin-Angiotensin Supersystem," Bob Speth, E531 School of Medicine, 4:30 p.m. <http://physiology.cwru.edu/>. Contact: Katie Reese, 368-3400 (*kar18*).

**Tuesday, November 4** . . . Evolutionary Biology Brown Bag Seminar: "Evolution of Human Bone Shock Absorbers: Fine Tuning Your Ride," Charles Kunos. Dampier Room, Kelvin Smith Library, 11:30 a.m. Contact: Cynthia Beall, 368-2277 (*cmb*).

**Tuesday, November 4** . . . Case Conversations on Children in Research and Policy: "Development of Kangaroo Care Science," Susan Ludinton and Gene Anderson. Sponsored by the Schubert Center for Child Development and the Case Consortium for Children, Families and Communities. Baker-Nord Center, 206 Clark Hall, 11:45 a.m. to 1 p.m. <http://www.cwru.edu/artsci/schubert>. Contact: 368-2414.

**Tuesday, November 4** . . . Materials Science and Engineering Colloquium: "Discrete Dislocation Plasticity," Alan Needleman, 411 White Building 4 p.m. <http://scumbag.case.edu/colloquium/index.php>.

**Wednesday, November 5** . . . Department of Neurosciences Seminar: "The Emerging Role of the Neuronal Kinase Cdk5 in Synaptic Plasticity," James Bibb, E609 School of Medicine, noon. Contact: Gina Ventre, (*glv*).

**Wednesday, November 5** . . . Realizing the Dream of Flight: A Symposium Honoring the Centennial of the Wright Brothers' First Flight. Sponsored by NASA, the History Associated of Case Western Reserve University, and other organizations. Registra-

tion is required. Reinberger Auditorium, The Great Lakes Science Center, 8 a.m. to 3:45 p.m. <http://www.greatscience.com>. Contact: Mark Bowles, (*mdb@historyenterprises.com*).

**Wednesday, November 5** . . . Diversity Awareness Workshop. Registration required. 13 Crawford Hall, 9 a.m. to 1 p.m. Contact: Tina Filsinger (*bff*).

**Thursday, November 6** . . . City Class Room Series: Sponsored by Alumni Relations, Programs and Events. "Business as an Agent of World Benefit," David Cooperrider. Admission: \$10. The City Club, 850 Euclid Avenue, 7:30 a.m. Contact: Melissa Winter, 368-2416 (*maw13*).

**Thursday, November 6** . . . Center for Women: Act III Round Table. Discussion group for women in or nearing retirement 303 Thwing Center, 4 p.m. <http://www.cwru.edu/provost/centerforwomen/>. Contact: Ginnette Boyarko, 368-0985 (*geb9*).

**Thursday, November 6** . . . Chemistry Colloquium: "Proton-Coupled Electron Transfer," Daniel G. Nocera. Refreshments, 4:15 p.m., Clapp Hall balcony, 108 Clapp Hall, 4:30 p.m. <http://www.case.edu/artsci/chem>. Contact: Pat Eland, 368-3622 (*pme2*).

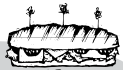
**Thursday, November 6** . . . The United States and Europe: What Now for "the West"? A series of 4 presentations co-sponsored by the Center for Policy Studies and the Cleveland Council on World Affairs. 2nd in the series: "Butter: What Kind of Global Economy?" Presenters: Amy Medearis, Eliot Posner, and Simon Reich. Ford Auditorium, Allen Memorial Library, 5 p.m. Contact: Joseph White, 368-2426 (*jw87*).

**Friday, November 7** . . . Special Analysis Seminar: "The Busemann-Petty Problem for Gaussian Measures," Artem Zvavitch. Sponsored by the Department of Mathematics. Refreshments: 2 p.m., 207 Yost Hall, 300 Yost Hall, 2:30 p.m. Contact: Diane Robinson, (*drr*).

**Friday, November 7** . . . Case Comprehensive Cancer Center/ Blood Club Seminar: "Burkitt's Lymphoma and Update on Status of Protocol CWRU 2498: Oral Chemotherapy for Aids Lymphoma in East Africa," Scot C. Remick and Jackson Orem. Reception follows outside conference room. Amphitheater, 123 Rainbow Babies and Childrens' Hospital, 4:15 p.m.

**Friday, November 7** . . . Art History and Art Seminar: "The Prodigal Son in the Gothic Cathedral: Art and Subjectivity in the Thirteenth Century." Gerald Guest. Lecture Hall, Cleveland Museum of Art, 12:30 p.m. Contact: Debby Tenenbaum, 368-4118 (*dxt6*).

## Lunchtime meetings



**Friday, October 31** . . . Center for Women: Faculty Brown Bag Lunch. 303 Thwing Center, noon. <http://www.case.edu/provost/centerforwomen>. Contact: Ginnette Boyarko, 368-0985 (*geb9*).

**Friday, October 31** . . . Public Affairs Forum: "Shock Therapy: Not as Scary as You Think?" Jonathan Sadowsky. Beverages and cookies provided. 14 Crawford Hall noon. <http://www.case.edu/artsci/cps/PADG.htm>. Contact: Jeff Bendix, 368-6070 (*jxb34*).

**Friday, October 31** . . . Center for Women: Faculty Brown Bag Lunch. Net working opportunities and informal discussion. 303 Thwing Center, noon. <http://www.case.edu/provost/centerforwomen>. Contact: Ginnette Boyarko, 368-0985 (*geb9*).

**Wednesday, November 5** . . . Center for Women Book Discussion Group: "Delta Wedding" by Eudora Welty. Bring your lunch. 720 Crawford Hall, noon. <http://www.case.edu/president/uw/calendar.html>. Contact: Rosemary Alexander, 368-2008 (*rka2*).

**Friday, November 7** . . . Center for Women: Staff Brown Bag. Net working opportunities and informal discussion. 303 Thwing Center, noon. <http://www.case.edu/provost/centerforwomen>. Contact: Ginnette Boyarko, 368-0985 (*geb9*).

**Friday, November 7** . . . Public Affairs Forum: "Preserving Lake Erie: Making Development Compatible with a Healthy Lake," Joseph Koonce. Beverages and cookies provided. 14 Crawford Hall noon. <http://www.case.edu/artsci/cps/PADG.htm>. Contact: Jeff Bendix, 368-6070 (*jxb34*).

## Dissertation defenses



**Thursday, October 30** . . . "Health-Related Quality of Life Among Older Adults Using Consumer-Directed Care Services," Brenda Rae Wamsley, social welfare. Adviser: Kathleen Farkas, 112 Mandel School of Applied Social Sciences, 11 a.m.

**Thursday, October 30** . . . "Duchamp's Chess Identity: 1916-1923," Bradley Bailey, art history. Adviser: Ellen Landau, 100 Mather House, 9 a.m.

**Friday, October 31** . . . "Myoelectric Control of a Hand Grasp Neuroprosthesis for Low Cervical Tetraplegia," Jayme Knutson, biomedical engineering. Adviser: P. Hunter Peckham, 230 Uni-

versity West, 9 a.m.

**Friday, October 31** . . . "Biophysical Properties of the Recombinant Prion Protein," David Vanik, chemistry. Adviser: Witold Surewicz, 123 Millis Science Center, 1:45 p.m.

**Friday, October 31** . . . "An Across Contexts Comparison of Emotional Intelligence Competencies: A Discovery of Gender Differences," Beatriz Rivera-Cruz, organizational behavior. Adviser: Richard Boyatzis, 418 Peter B. Lewis Building, 2:30 p.m.

**Monday, November 3** . . . "The Initial Characterization of UNC-79: A Gene Mediating Anesthetic Sensitivity in *C. elegans*," John Humphrey, genetics. Adviser: Phil Morgan, 732 Biomedical Research Building, 9 a.m.

**Tuesday, November 4** . . . "Aging and Modernization: A Field Study of the Determinants of Elders' Social Status in American and Independent Samoa," Heather Lindstrom, anthropology. Adviser: Cynthia Beall, 201 Mather Memorial Building, 3 p.m.

**Thursday, November 6** . . . "Predictors of Change in Physical Function in Chronic Rehabilitation Elderly Patients using the Minimum Data Set," Jia Lee, nursing. Adviser: Patricia Higgins, 203J School of Nursing, 9:30 a.m.

**Thursday, November 6** . . . "Stories They Tell Themselves: Minds at Work in Fictional Dreams," Leigh Fabens, english. Adviser: William Marling, 219 Guilford House, 10 a.m.

**Thursday, November 6** . . . "A Robust Multivariable Control System Design and Tuning Software (IMCTUNE)," Tinnakorn Kumsaen, chemical engineering. Adviser: Coleman B. Brosilow, 709 Olin Building, 2 p.m.

## Computer classes



Registration and up to date class information for classes listed below is available online at <http://kslearn.case.edu>. If you encounter technical problems or error messages with the process call 368-2991. All classes are held at 215 Kelvin Smith Library unless otherwise noted.

**Tuesday, November 4** . . . Access Database Overview, 9 a.m. to noon; More Power Point, 1-4 p.m. (Class meets in LL06).

**Thursday, November 6** . . . Dreamweaver: Introduction, 1:30-4:30 p.m.; Copyright at Case, 1-2 p.m. (Class meets in LL06).

## Sports



For schedule changes and contest results visit: <http://www.case.edu/orgs/varsity/varsity.html>.

**Friday, October 31** . . . Men's Soccer @ University of Chicago, 11 a.m. (CST)

**Friday, November 1** . . . Football @ Buffalo State College, 1 p.m.; Volleyball @ Ohio Wesleyan University, 10 a.m.; Men's and Women's Cross Country @ UAA Championships-Chicago IL, 11 a.m. (CST).

**Sunday, November 2** . . . Women's Soccer vs. Washington University (MO), 1:30 p.m. (CST); Men's Soccer @ Washington University, 11 a.m.

**Saturday, November 8** . . . Football vs. University of Rochester, noon; Soccer at University of Rochester: Men's, 12:30 p.m.; Women's, 3 p.m.

**Friday and Saturday, November 7 and 8** . . . Volleyball UAA Championships @ New York, TBA.

## Theater/dance



**Thursday, Friday and Saturday, October 30, 31 and November 1** . . . Footlighters Fall Musical: "Little Shop of Horrors" Admission: \$5 with Case ID, \$7 all others. Harkness Chapel, 8 p.m. and an 11:55 p.m. performance on Saturday only. Contact: Dan Wells, (*dwx46*).

## Exhibits



**Now through October 31** . . . National Collage Society 19th Annual Juried Exhibition. Sponsored by Case Art Education, the National Collage Society, and the Northeast Ohio Art Education

Association. Art Studio Gallery, 2215 Adelbert Road, Gallery hours: Monday-Friday, 9 a.m. to 5 p.m. and October 25 from 12:30-4:30 p.m.

**October 30 through December 30** . . . Wish you were here-The Art of Adventure curated by Cathleen Chaffee and David Carrier. Showcases the work of nine international contemporary artists as they explore adventure through their art. Opening party October 30, 5:30-8 p.m. Reinberger Galleries, Cleveland Institute of Art Gallery hours: Monday-Thursday and Saturday, 9 a.m. to 5 p.m. Friday 9 a.m. to 8 p.m. Sunday 1-5 p.m. <http://www.cia.edu>. Contact: 421-7404 ([reinberggallery@gate.cia.edu](mailto:reinberggallery@gate.cia.edu)).



## Concerts

**Saturday, November 1** . . . Cleveland Museum of Art Aki Festival of New Music: Korvat aukki (Ears Open!): New Music from Finland performed by the Oberlin Contemporary Ensemble, Timothy Weiss, director. Cleveland Museum of Art, 2:30 p.m. <http://www.clevelandart.org>. Contact: 371-3457.

**Tuesday, November 4** . . . Case Western Reserve University/ University Circle Orchestra. First concert of the season featuring Concerto Competition winner Dan Meikle at the piano. Works by Leonard Bernstein, Samuel Barber and George Gershwin. Ballroom, Thwing Center, 7:30 p.m. Contact: 368-2400.

**Wednesday, November 5** . . . Midday Music at CIM: Student Recital Series. Bring your lunch and enjoy a variety of short solo and chamber music selections performed by CIM students. Le Pavillon Cleveland Institute of Music 12:30 p.m. <http://www.cim.edu>. Contact: 791-5000.



## Film

Adults \$3, children 12 and under \$2, 10-film pass \$25, semester pass \$50. For more information visit: <http://films.case.edu/schedule.html>. Contact: Case Film Society, 368-2463.

**Friday, October 31** . . . "Matrix Reloaded." Strosacker Auditorium, 7 and 10 p.m.

**Saturday, November 1** . . . "Rocky Horror Picture Show." Strosacker Auditorium, 7 and midnight.

**Friday, November 7** . . . "Hulk." Strosacker Auditorium, 7 and 10 p.m.

**Saturday, November 8** . . . "The Mouse that Roared." 7 and 9 p.m.



## Other events

**Thursday, October 30** . . . Halloween in Thwing. Atrium, Thwing Center, 10 a.m. to 7 p.m. Contact: Maura O'Beime-Stanko, 368-2654 (*mvo*).

**Saturday and Sunday, November 1 and 2** . . . SatCo classes begin. Fun and provocative non-credit, no-tuition "courses." Register on line. Last day to register is October 30, 8 a.m. to 5 p.m. <http://ess.case.edu/vision/satco>. Contact: Mayo Bulloch (*mx14*).

**Monday, November 3** . . . Case Concert Choir Auditions. New select group starting Spring Semester. Open to audition to all undergraduate and graduate students. Sign up for a time at Hayden 305. <http://music.case.edu/ensembles.html>.

**Wednesday, November 5** . . . Putnam Sculpture Collection. Walking tour of indoor and outdoor sculpture collection. Will be held rain or shine. Meet in the Atrium, Thwing Center, 12:30 p.m. <http://www.cwru.edu/artsci/arth/putnam/index.html>. Contact: Juliee Decker, 368-4951 (*jdecker*).

**Thursday, November 6** . . . Heritage and Cultural Celebration. An open house of exhibits and displays sharing information about a variety of heritages and cultures represented within the Case student, faculty, and staff community. Ballroom, Thwing Center, 11 a.m. to 2 p.m. <http://www.cwru.edu/finadmin/humres/eeer/culture.html>. Contact: Carolyn Gerich, 368-2458 (*cag16*).

**Friday, November 7** . . . Phi Kappa Race for the Kids. 5K Race sponsored by Phi Kappa Tau-Alpha Delta Chapter. Participation fee: Student - \$15, Non Student - \$17 See website for details. 10 a.m. to noon. <http://home.cwru.edu/~jxh107/race.html>. Contact: Greg Doerk (5k).

**Saturday and Sunday, November 8 and 9** . . . SatCo classes being. Fun and provocative non-credit, no-tuition "courses." Register on line. Last day to register is October 30, 8 a.m. to 5 p.m. <http://ess.case.edu/vision/satco>. Contact: Mayo Bulloch (*mx14*).

# FOR YOUR INFORMATION

## OMA to conduct turkey drive

The Office of Multicultural Affairs (OMA) at Case Western Reserve University is conducting its third annual Turkey Drive.

Donations of \$1 to \$10, which will help provide turkeys to disadvantaged families in the Cleveland area, are being accepted until November 24.

To make a donation or to assist in delivering turkeys, stop by the office at 450 Sears Building or call 368-2904.

## Med Hall of Fame dinner slated

The Seventh Annual Cleveland Medical Hall of Fame dinner will be held November 5 at Windows on the River banquet facility in Cleveland's Flats.

Case Western Reserve University's School of Medicine sponsors. Proceeds support scholarships for Case medical students.

The black-tie optional event, which honors Cleveland's distinguished medical community, begins at 6 p.m. with cocktails and 7 p.m. for dinner and program.

Tickets are \$100 per person or \$900 for a table of 10. Call 771-2833, ext. 149.

## Dance concert season to open

The Mather Dance Program in the department of theater and dance at Case Western Reserve University opens its concert season with "Tracings." Performances are at 8 p.m. November 6 through November 8, with a 2:30 p.m. matinee on November 9, all in Mather Dance Center.

Admission is \$5 for students; \$7 for faculty, staff and senior citizens; and \$10 for general admission. For reservations and information, call the box office at 368-6262.

## ITS offers new backup service

Case Western Reserve University's Information Technology Services is offering a new network backup service supporting department, division, office and individual servers with more than 100 gigabytes of data.

Individual desktop and notebook backup services are scheduled to come on line during the first quarter of 2004.

Network backup service requests can be made online at <http://www.case.edu/its/infrastructure/backup/mybakupORDER.html>.

The service is free until January 2004. After January 1, the cost will be charged directly against department, division, office or individual accounts and billed at \$0.68 per gig per month.

Details are at <http://www.cwru.edu/its/infrastructure/backup/bakupFAQ.html>.

## Cultural fest to take place Nov. 6

Case Western Reserve University's third annual Heritage and Cultural Celebration is from 11 a.m. to 2 p.m. November 6 in the Thwing Ballroom.

The event is an open house of exhibits and displays that share information about a variety of heritages and cultures represented within the Case student, faculty and staff communities.

To learn more, contact Carolyn Gerich at 368-2458 or [cag16@case.edu](mailto:cag16@case.edu) or Gail Palombia Shipley at 368-4729 or [gps3@case.edu](mailto:gps3@case.edu).

## Charity Choice to continue

Case Western Reserve University's 2003 Case Charity Choice Campaign officially closes October 31, but employees may contribute through the end of the year.

Donations may be made to Greater Cleveland Community Shares, Earth Share of Ohio and United Way Services; individual agencies affiliated with these umbrella organizations; or other independent organizations that have been certified with 501(c)3 tax status.

For more information, visit <http://www.cwru.edu/president/cir/charitychoice/ccopeningpg.htm>. or call Lynice Willis at 368-5886.

## Case to celebrate Halloween

Thwing Center hosts its annual Halloween event from 10 a.m. to 7 p.m. today in the Thwing Atrium, while the University Farms conducts its second annual Halloween at the Farm celebration from 6-11:30 p.m. November 1 at Squire Valleeve Farm.

## Board elects new trustees

The Case Western Reserve University Board of Trustees has elected five new members, all of whom are Case alumni.

The newest members of the Case Board of Trustees are James Bildner, Thalia Dorwick, Gregory Eastwood, Samir Jadallah and Ted Schroeder.

"The five distinguished alumni who have joined the board are committed to helping Case become the most powerful learning environment in the world," said Case President Edward M. Hundert. "The face of our board is changing. Our trustees are electing more alumni, people with a broader geographic reach and leaders in various stages of their lives and careers. I am looking forward to working with these dedicated alumni as trustees and will rely heavily upon their guidance and support."

Changes include the median age of board members, which in September 2001 was 69. Today's median age, 59, is 10 years younger. In addition, 76 percent of today's board members are Case alumni, compared to 53 percent in 2001.

"The changes in the makeup of our board are moving us closer to our goal of creating a board that more closely resembles the

university itself," Hundert said.

In addition to the five new members, the board also will have a new chair in May. Frank Linsalata, a 1963 graduate of the Case Institute of Technology and a member of the Case board since 1999, will replace Charles Bolton as chair in spring 2004.

Linsalata currently serves as the board's vice chair and is the president of Linsalata Capital Partners.

Newly elected trustee Bildner received his law degree from Case in 1979 after receiving a bachelor's degree in psychology from Dartmouth College. He is president and chief executive officer of Tier Technologies in Boston. In addition, he continues to teach at the Case School of Law.

Dorwick, a Pennsylvania native, received her bachelor's degree in 1966 from Flora Stone Mather College and her doctorate in 1973 in romance languages. She will soon retire as the vice president and editor-in-chief of humanities, social sciences, foreign language and English as a second language at McGraw-Hill Publishing in San Francisco.

Eastwood, from the Detroit area, attended Albion College and received his medical

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college of Arts and Sciences

## Top astrophysicists gravitate to Case, share leading research

by Susan Griffith  
(susan.griffith@case.edu)

The cosmic forces of 14 billion years of universe history brought more than 70 of world's greatest thinkers to Case Western Reserve University.



Stephen Hawking (seated) makes a rare appearance at Case Western Reserve University.

The scientists projected where the next 25 years of research might take astrophysicists and cosmologists during the Kavli-CERCA Future of Cosmology conference, hosted earlier this month by Case's new Center for the Education and Research in Cosmology and Astrophysics (CERCA)—a collaboration between the department of physics and the Shafran Planetarium at the Cleveland Museum of Natural History.

Among the astrophysicists at the conference were Nobel Laureate Steve Weinberg, who opened the conference with his talk at the museum, and Stephen Hawking, the Cambridge University professor and bestselling author of "A Brief History of Time" and other works, who received honors and gave the university's Michelson-Morley Award Lecture at Severance Hall.

During the Michelson-Morley event, an Ohio Historical Marker was unveiled on stage at Severance.

Eventually the marker will stand before Adelbert Hall. The award, as well as the marker, honor the scientists—Albert A. Michelson and Edward W. Morley—for their experiment that led to Albert Einstein's theory of relativity. The foundations for the experiment were laid in the basement of what was then called Adelbert Hall; it was a dormitory, later known as Pierce Hall, on the site of the present Millis Science Center.

Lawrence Krauss, the Ambrose Swasey Professor of Physics and conference chair, said the conference will be "long remembered as one of the most exciting meetings in cosmology in recent times."

Krauss, with Case Physicist John Ruhl, will be the director and co-director of CERCA, respectively. The new center will provide research opportunities in cosmology as well as design new planetarium programs to educate the public.

"It is clear that there remains

outstanding theoretical puzzles that will keep us busy for many years, even beyond the 25-year time scale," said Tanmay Vachaspati, Case professor of physics who studies cosmic string theory.

Cosmic strings, suspected defects on the topology of the early universe development, was among the conference discussions.

The conference shed new light on the universe's early development as Adam Riess, a scientist from the Space Telescope Science Institute in Baltimore, Md., reported that the universe jerked about 5 billion years ago to shift from a slow speed to a higher acceleration in its expansion.

Also discussed was whether the universe is round like a soccer ball, somewhat flat like a pancake or some other unique shape. Case's Glenn Starkman, a professor of physics on research leave to Switzerland this year, refuted a newly published study in "Nature" that says the universe is a ball-like

shape.

Another big area of research in cosmology is the search for dark matter—one suspected form of which is Weakly Interacting Massive Particles (WIMPs). Daniel Akerib, who heads a team at Case that has built a National Science Foundation-funded detector, led a session with Christopher Mihos, Case assistant professor of astronomy, about new research into dark matter. They had the opportunity to hear from Joe Silk of Oxford University, who co-authored a new paper published a week before the conference on the discovery of a modified form of WIMPs emanating from the center of the galaxy. Silk encouraged researchers like Akerib to use their detectors to search for these new particles.

In addition, Corbin Covalt, Case associate professor and CERCA conference committee member, moderated discussions on ultra high energy cosmic rays.

mandel school of Applied Social Sciences

## New research to focus on families providing care to dying relatives

by Jeff Bendix (jeff.bendix@case.edu)

The start of the modern hospice movement 40 years ago has focused the attention of researchers on the emotional and spiritual needs of terminally ill patients. Less attention has gone to meeting the needs of family members of the patients, who are often the ones providing care. But a faculty member at the Mandel School of Applied Social Sciences is helping to fill that gap.

Aloen Townsend, associate professor at the Mandel School, recently received a two-year, \$65,000 Social Work Leadership Development Award from the Project on Death in America (PDIA)—part of the Open Society

Institute—to improve ways of assessing the needs of families providing care to dying relatives.

The project, "Family Assessment Collaboration to Enhance End-of-Life Support (FACES) is being developed in association with the Hospice of the Western Reserve (HWR).

"When people are terminally ill, they naturally become the focus of attention for most of the care-giving professionals," Townsend said. "But we also need to find ways to help family members. The concern is that if issues resulting from the stress of caring for a dying relative aren't identified

early on, they can lead to bigger problems during this final care-giving period and after the person has died."

Townsend and her fellow researchers at Case and HWR are beginning by reviewing the existing literature on family caregiver strain, a process already well under way. Based on that review, they are developing a tool tailored to end-of-life care. They will test the tool through in-depth interviews with primary family caregivers, who will be drawn from families receiving hospice services through HWR.

"Our goal is to create a brief questionnaire that HWR will make a routine part of their

initial assessment for families seeking hospice care," Townsend said. "We hope to share it with other hospices and palliative care settings, and to identify future research directions to better understand the needs of families in this situation."

Townsend said the questionnaire that is developed also will measure positive experiences that come from caring for a dying patient.

"Sometimes it brings families closer together or strengthens the spiritual beliefs of the surviving family members," she said.

The project is due to be completed at the end of 2004.

## SAC seeks donations for basket raffle

Case Western Reserve University's Staff Advisory Council (SAC) basket raffle will help keep Cleveland area children warm this winter.

Proceeds from the popular raffle, which will take place during the annual Benefits Fair, November 18 and 19 in Crawford Hall, will be donated to Shoes and Clothes for Kids. Baskets to be raffled will be located on the first floor of Crawford, outside the alumni offices.

University departments and offices can help by donating a theme basket to the raffle, which is sponsored by SAC's community service committee. Baskets must be valued at \$50 or more, wrapped in a clear covering in order to see the items enclosed and come with an itemized list of contents. Baskets must be delivered to Crawford Hall by November 17.

Last year's raffle garnered support from more than 40 offices around campus, and SAC wants to make this year's even more successful, said Rhonda Peoples, SAC community service committee co-chair.

Shoes and Clothes for Kids provides a unique service for income-eligible families in Greater Cleveland by distributing new shoes, clothing and items for infants and youth. This program

continued on page 4

## Hundert to help lead Third Frontier Project

Case Western Reserve University President Edward M. Hundert is taking on an integral role in strategic planning for programs intended to spur growth in technology, research and entrepreneurship in Ohio.

Hundert has been appointed by Ohio Gov. Bob Taft to the Third Frontier Advisory Board, which counsels the state's Third Frontier Advisory Commission.

"The Third Frontier Project is key to Ohio's future economic health," Taft said. "There are billions in investment dollars at stake, and Dr. Hundert's understanding of today's academic and economic realities will make a critical contribution to assuring the commission has the information and expertise to invest in the right initiatives."

The Third Frontier Project is Ohio's \$1.6 billion, 10-year program of investment in new research, new product and process innovation—all tied to new job creation. Ohio's investment is matched by \$4.5 billion in federal and private sector investments, providing more than \$6 billion in catalytic activities that will play key roles in transforming and strengthening Ohio's economy.

"Case will continue to work closely with the Third Frontier Project to create high-tech research opportunities and spur job growth in a wide variety of fields," Hundert said. "This is an opportunity to help drive Ohio to a leadership role in the development of new technology and business models leveraging the advanced research coming out of some of the finest research institutions in the nation."

According to Hundert, Case and the Third Frontier Project have created a strong partnership since its inception in early 2002. Case has a long-standing history of pioneering advanced research in engineering and biomedical technology, among other important and influential research areas, he said.

weatherhead school of Management

## Weatherhead continues rise to world's best

The Case Western Reserve University Weatherhead School of Management has placed among the finest business schools in the world in new rankings from several major sources.

In "BusinessWeek," Weatherhead's executive education programs ranked 15th in the world for open enrollment and 19th in the world for customized curriculum, while the school's Executive MBA program ranked 21st in the world. EMBA graduate surveys ranked Weatherhead one of the top five schools for marketing.

In the Aspen Institute and World Resources Institute's "Beyond Grey Pinstripes 2003" report, Weatherhead was recognized as one of the top 25 U.S. business schools that "infuse environmental and social impact management into the classroom, activities and faculty research."

In addition, "The Economist" ranked Weatherhead's MBA program 27th in the United States, and "The Financial Times" rated its Executive MBA 20th in the country.

## SCOREBOARD

### Women's Soccer

October 17:  
Emory 2, Case 1

October 19:  
Carnegie Mellon 1, Case 2

### Men's Soccer

October 17:  
Emory 4, Case 0

October 19:  
Carnegie Mellon 2, Case 0

### Football

October 18:  
Carnegie Mellon 44, Case 16

### Women's Volleyball

October 18:  
Case 3, Chicago 1  
New York 3, Case 1

October 19:  
Carnegie Mellon 3, Case 1  
Emory 3, Case 1

October 22:  
Hiram 3, Case 0  
(30-12, 30-16, 30-28)

# spartan Sports

## Soccer, museums are all in Edmonson family

by Creg Jantz (creg.jantz@case.edu)

Picture this: Case Western Reserve University soccer player John "Jack" Edmonson weaving in and out of artifacts on the marble floor of a museum as if they were orange cones on a soccer field full of green grass.

"That would make for a great Nike commercial," he joked.

Far fetched? Not really, considering the senior business major has grown up in places where historical objects are stored.

Edmonson's father, James, is the chief curator at Case's Dittrick Museum of Medical History. His mother, Christine, works across the street at the Cleveland Museum of Art as an art historian and librarian.

"At age 5 or 6, he was pushing his kid sister along the museum's storage aisles on an office chair," James Edmonson said. "He never smashed into anything—thankfully!"

Being raised in museums runs in the family. Jack Edmonson's grandfather—his mother's father—Joe Ennis, was head of restoration at the Hagley Museum in Delaware, the site of Du Pont's original powder works.

"Like his mother, Jack grew up on museum grounds," James Edmonson said. "With both of us being involved in the museum field, he had a lot of unique opportunities many other people probably didn't."

Christine Edmonson put the children in art classes on Saturday mornings. That kind of dwindled as soccer picked up more and more and her son would go away for tournaments. But for as long as Jack Edmonson can remember, Saturday mornings were reserved for the arts.

"We would pick a theme class and go on a quarterly basis," he said. "We

would make masks and stuff like that and bring them home. Since my mom worked there, we also got sneak peaks at all the shows with the art bigwigs."

A business major/aspiring bigwig himself, Jack Edmonson made the migration down the hill from Cleveland Heights, Ohio, to University Circle after graduating from Heights High in 2000.

When he graduates from Case this spring, he will look for work in an industry he is interested in, like golf or skiing resorts. He said he will not just take a job because it's there. That's a trait that he has learned from his father.

"My dad loves going to work, he loves going in every single day," he said. "Working in a museum, he doesn't get paid that well, but his heart's in it. And I am looking for the same type of situation."

As far as Jack Edmonson's situation on the soccer field at Case. The Spartans are 13-36-2 during his tenure. His junior year was by far the best. He finished with 11 points on four goals and three assists. The team finished 7-10-1.



photo by Jeffrey Blatnik

John "Jack" Edmonson (center) in action on the soccer field

## Senate approves amendments

Case Western Reserve University's Faculty Senate has passed resolutions making minor changes to the bylaws of the College of Arts and Sciences.

Both proposals, one to amend an article regarding ex officio members and one pertaining to graduate committee responsibilities, were approved unanimously. Prior to the senate vote, the College of Arts and Sciences executive committee endorsed both amendments.

Also at the meeting, President Edward M. Hundert shared with the senate the university's strategic investment plan to become the world's most powerful learning environment, and Donald Feke, Case's vice provost for planning and assessment, provided an update on Case's accreditation efforts.

## Fellows

(continued from page 1)

tics in the School of Dentistry, who teaches a seminar called "Face First," and Simmelink, Case's associate professor emeritus of restorative dentistry, who delivers a seminar called "Forensic Sciences: How They Impact Your World."

Case staff members also are represented. Shapiro, Gonick and Bielefeld, director of Case's Instructional Technology and Academic Computing programs, Case's vice president for information technology and director of customer services, respectively, team up to teach a seminar known as "Living in the Symbolic World: Imagery

and Information."

Berger, former dean of the Case School of Medicine who now directs Case's Center for Science, Health and Society, teaches a seminar called "From DNA Structure to Social Structure," while Beal, the associate director of the United Protestant Campus Ministries at Case, president of the Inter-Religious Council at Case and dean of the Cleveland Ecumenical Institute for Religious Studies, leads a seminar titled "Prophets, Mystics and Saints: Spiritual Biography and Autobiography."

From Case's University Circle partners,

Nelson, a professor and head of music theory at the Cleveland Institute of Music, delivers "Beethoven and the Age of Revolution," while Cunningham, former curator of the Cleveland Museum of Art, leads "Visions of Landscape: East and West in Painting and Literature."

Ferry, former acting president and CEO of University Hospitals of Cleveland, leads "The Impact of Recognition and Reward on Motivation and Success: Can We Go Too Far?" The seminar from Fisher, president and CEO of the Center for Families and Children, is titled "Entrepreneurial Leader-

ship at the Intersection."

Also selected as Presidential Fellows are two members of "The Cleveland Plain Dealer" staff: Sheridan, associate editor of the paper's editorial pages, offers "Sport and American Culture in the 20th Century," and Fulwood, author and metro columnist, offers "Media Literacy, Racial Images, Pop Culture and Public Policy, Private Choices."

For more information on the SAGES program, the Presidential Fellows or their seminars, visit <http://www.case.edu/sages/fellows.htm>.

## In Memoriam

### Bailey disseminated Case news for more than a decade

For more than a decade, Judith Bailey gathered news from the Case Western Reserve University School of Dentistry, the Mandel School of Applied Social Sciences and the Frances Payne Bolton School of Nursing.

She contributed articles to "Campus News" and the university's alumni magazine as a senior media relations representative in the Office of University Communication and distributed news stories from the professional schools to local, regional and national media.

Bailey, who left the university in 2001 to assist her husband Lee Bailey in his public relations business, died from cancer October 14 at the Kobacher House in Columbus. She was 61 years old.

## Clusterin

(continued from page 1)

in response to the presence of cancer. Researchers said this rise would indicate that if a baseline clusterin level was established for a healthy person, a simple blood test could detect any deviation in clusterin levels, indicating the potential presence of cancer. Case researchers will continue studies to confirm the findings and gain additional information.

The researchers used cells from humans and mice in their studies.

"Trying to understand how genes influence cancer requires either a guess or mice because we can't expose humans to the radiation that helped us get to these findings.

Humans and mice share many genes, so it was much easier to use strains of genetically identical mice," Boothman said.

To monitor clusterin expression in human and rodent cells, the team made a gene cassette in which they fused the clusterin gene to luciferase, the enzyme that provides the light in fireflies. They implanted the bound gene cassette into cancerous breast cells and implanted the cancerous cells or tissue into mice, which they irradiated. They then observed the behavior of the genetic material to learn more about clusterin expression.

Boothman's team is also working

to develop a simple blood test that would identify clusterin levels and to test its ability to identify cancer in mouse models.

Boothman worked with co-investigators David Wilson, professor of biomedical engineering; Helen Evans, professor of radiation oncology; Andrew Rollins, assistant professor of biomedical engineering; Lindsey Mayo, assistant professor of radiation oncology; Dmitry Klokov, Konstantin Leskov and Shinako Araki, post-doctoral research associates; and Tracy Criswell, a graduate student in pathology at the Case School of Medicine.

## Trustees

(continued from page 3)

degree from Western Reserve University School of Medicine. For the past decade, Eastwood has been the president of Upstate Medical University of the State University of New York (SUNY) in Syracuse, N.Y.

Jadallah attended the Case Institute of Technology. In 1987, he left the school to join Microsoft. Currently, he serves as general partner, managing director of operations and a member of the board of directors at Mohr, Davidow Ventures, an early stage venture capital firm in Menlo Park, Calif.

Schroeder, a native of Dayton, Ohio, received his bachelor's degree summa cum laude in mathematics from the Case Institute of Technology in 1980. He obtained a master's degree in computer engineering in 1983. In 2001, he co-founded FreeHand Systems, a world leader in the development, manufacture and marketing of electronic accessories to the music industry, as well as a leading Internet-based provider of sheet music and digital files.

## Baskets

(continued from page 3)

is carried out through a network of partner agencies and offers a way for the Case to help families in need, said Judith Olson-Fallon, also a committee co-chair.

In 2002, about \$1,000,000 of new clothing was distributed to over 40,000 children. Shoes and Clothes for Kids also provides \$10 Payless ShoeSource gift certificates to allow children to select their own shoes. From 1999 to 2002, over 45,000 Payless gift cards valued at over \$600,000 were distributed with a 94 percent redemption rate.

To donate a basket, contact Olson-Fallon at [jko2@case.edu](mailto:jko2@case.edu) or Peoples at [rmp3@case.edu](mailto:rmp3@case.edu).

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