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TODAY

- LOMA LINDA UNIVERSITY
- LOMA LINDA UNIVERSITY Medical Center
- LOMA LINDA UNIVERSITY Children's Hospital
- LOMA LINDA UNIVERSITY Medical Center—East Campus
- LOMA LINDA UNIVERSITY Behavioral Medicine Center
- LOMA LINDA UNIVERSITY Health Care
- LOMA LINDA UNIVERSITY Heart & Surgical Hospital
- Faculty Medical Group of LLUSM
- Faculty Physicians & Surgeons of LLUSM



LOMA LINDA UNIVERSITY

LLUSM Annual Postgraduate Convention addresses wide spectrum of medical topics

BY JAMES PONDER

The 77th Annual Postgraduate Convention (APC) of the Loma Linda University School of Medicine (LLUSM) provided a wide spectrum of evidence-based medical education for returning alumni and other health care professionals, as well as opportunities for spiritual growth and socializing with classmates, colleagues, and friends.

According to Dennis E. Park, executive director of the LLUSM Alumni Association, more than 400 individuals signed up for continuing medical education credit, and approximately 850 patronized the exhibits.

The 2009 APC, which convened Wednesday, March 4, through Monday, March 9, featured more than 100 academic presentations by members of the APC guest faculty, as well as dozens of health experts from the University itself.

This year's list of featured speakers included Brigadier General Loree K. Sutton, MD, class of 1985 and director of the Defense Center for Excellence for Psychological Health and Traumatic Brain Injury in Silver Spring, Maryland—the highest-ranking psychiatrist in the United States Army.

The LLUSM graduate anchored the opening session by delivering the Percy T. Magan Memorial Lectureship on Friday, March 6, at 8:00 a.m. Brigadier General Sutton addressed the standing-room-only crowd on the topic of "Psychological Health and Traumatic Brain Injury."

Gary D. Overturf, MD, delivered the Robert F. Chinnock Memorial Lecture. Dr. Overturf, professor of pediatrics and pathology at the University of New Mexico School of Medicine in Albuquerque, has been honored as "the best doctor in pediatric infectious diseases" by Woodward and White, Inc., for the years 1994, 2000, 2002, 2005, and 2006.

He spoke on "The Pros and Cons of Combination Vaccines" in the lobby-level amphitheater of Loma Linda University Medical Center (LLUMC). He chairs the Vaccine and Biologic Products Advisory Committee for the Food and Drug Administration.

Leonard L. Bailey, MD, class of 1969, chief surgeon of LLU Children's Hospital, and speaker for the Sunday plenary session, discussed the "Origins and Legacy of the Baby Fae Experimental Operation."

Dr. Bailey shared the podium

with Richard L. Sheldon, MD, class of 1968 and chair of the LLU Institutional Review Board (IRB) during the Baby Fae episode in 1984, and Richard A. Schaefer, current president of the Loma

Linda Chamber of Commerce, and director of public relations at LLUMC in the 1980s. The trio offered their perspectives on the procedure, which laid the founda-

Please turn to page 2



Leonard L. Bailey, MD, chief surgeon at LLU Children's Hospital, recalls the turmoil surrounding the controversial Baby Fae operation in 1984. Dr. Bailey delivered his lecture during the Sunday plenary session, sharing the podium with Richard L. Sheldon, MD, chair of the LLU Institutional Review Board (IRB) during the Baby Fae episode in 1984, and Richard A. Schaefer, current LLU historian, and LLUMC director of public relations in the 1980s.



Sean Bush, MD, emergency physician and envenomation specialist at LLU Medical Center, delivers the Monday plenary session address. As the protagonist of "Venom ER," Dr. Bush warned members of the audience to ignore conventional wisdom regarding rattlesnakes. "Don't cut an 'x' over the wound and suck the venom out," he said. "Just call 911, and get help as fast as possible." Dr. Bush entertained questions from the audience at the close of his presentation.

SPH conference focuses on obesity and type-2 diabetes research, and how to apply the findings to people's lives in practical ways

BY HEATHER REIFSNYDER

Loma Linda University School of Public Health highlighted how a healthy lifestyle can prevent and address obesity and type-2 diabetes to an audience of about 400 at the Healthy People 2009 conference.

The conference met March 10 and 11, during which 38 presenters shed light on the science demonstrating lifestyle's ability to change disease outcomes, as well as on programs and innovations that seek to get Americans moving more often and eating more healthfully.

A video of the entire conference is available online free of charge at <www.healthypeopleconference.org>.

"Everyone's talking about the need for better nutrition and more exercise," says Renate Krause, PhD, chair of the conference. "At the same time, all of us are aware of the disconnect between knowing and doing."

The primary objective of the conference organizers was thus to create a forum for sharing best practices, presenting ideas, solutions, innovations, services, and collaborations—all showcasing prevention and intervention strategies that have been successful in translating science into changed lives.

Solutions for improving the nation's diet and exercise were respectively the subjects of the conference's two keynote addresses. Other presentations highlighted

subjects such as corporate wellness initiatives, childhood obesity prevention, lifestyle and insulin resistance, exergaming, and building sustainable communities that encourage physical activity and include the availability of affordable healthy food.

William Haskell, PhD, the chair of the advisory committee behind the federal government's 2008 Physical Activity Guidelines for Americans, gave one of the keynotes, stressing that the least active people are at the highest risk. Adding even moderate activity can be beneficial to health.

"I think this is an excellent conference to communicate ... why physical activity needs to be considered an integral part of overall health promotion and disease pre-

vention programs and education," Dr. Haskell says. "The guidelines don't help a lot unless they get out to people who are going to be implementing them through teaching or programs they run."

Suzanne Lohnes, RN, of San Diego was one such attendee who will be taking the information she learned at Healthy People 2009 and implementing it in her job.

As a diabetes disease case manager at a physicians medical group, Ms. Lohnes says she took very beneficial information away from the conference, including new insight that can help her with a specific patient who's had little success with weight loss.

She also appreciated the validation and encouragement she received about her efforts to moti-

vate patients to embrace realistic lifestyle changes.

"You feel you're on the right track, but it was cool to hear it," she says.

Also during the conference, the School of Public Health presented the inaugural Loma Linda Award for the Promotion of Healthy Lifestyles to Kaiser Permanente Southern California.

In keeping with its focus on improving health and preventing disease through lifestyle practices, the School will present this award each year during the Healthy People conference to a person or organization that has demonstrated leadership in the promotion of healthy lifestyles and contributed to the improvement of the public's health.



William Haskell, PhD, of Stanford University speaks about the 2008 Physical Activity Guidelines for Americans.



Audience members get moving at the instructions of speaker Antronette Yancey, MD, MPH, professor at UCLA School of Public Health, who presented on "Re-Integrating Physical Activity into Daily Routine: Opportunities for Intervening."

Annual Postgraduate Convention addresses wide spectrum of medical topics...

Continued from page 1
tion for decades of life-saving heart transplantation research.

David F. Chang, MD, delivered the George F. Kambara Lecture in Ophthalmology. Dr. Chang chose "Conquering Capsule Complications" as the topic of his speech. He serves the University of California at San Francisco as clinical professor of ophthalmology and maintains a very active professional life as an author—he has contributed more than 40 chapters in textbooks—and as a physician in private practice. The Kambara Lecture was established in honor of Dr. Kambara's nearly 50 years of dedicated service to the ophthalmology profession at both LLU and White Memorial Medical Center in Los Angeles.

Thomas G. DiPasquale, DO, discussed a "Suprapatellar Approach for IM Nailing for Tibial Fractures—The Cole Technique" as the topic for this year's Harold B. Boyd Memorial Lecture in Orthopaedics. Dr. DiPasquale is associate director of the orthopaedic trauma service at Florida Orthopaedic Institute at Tampa General Hospital, and affiliate associate professor of orthopaedics and sports medicine at the University of South Florida College of Medicine. He has received numerous honors and awards including the Albert H. Jente Memorial Award, and he has been listed in "The Best Doctors in America."

Renato Saltz, MD, adjunct professor of obstetrics and gynecology at the University of Utah School of Medicine, delivered the keynote address on "Advanced Aesthetic Surgery" during the plastic surgery

symposium on Sunday, March 8, in room 1830 of LLU Children's Hospital.

Dr. Saltz, who was educated in Brazil, belongs to numerous professional organizations including the American College of Surgeons, the American Association of Plastic Surgeons, the Rocky Mountain Association of Plastic and Reconstructive Surgeons, and the International College of Surgeons.

The final plenary session of the 77th APC featured a presentation on "Snakebites: Scenes from Venom E.R." by Sean P. Bush, MD, class of 1994, emergency physician and envenomation specialist at Loma Linda University Medical Center. Dr. Bush is renowned for his role in the popu-

lar television program, "Venom E.R." as well as his appearances in dozens of documentary television productions on the Animal Planet, Discovery Channel, National Geographic Television, PBS, and other cable networks.

He recently received a certificate of appreciation from the White House Medical Unit, which uses "Venom E.R." for training purposes.

The spiritual weekend offered a feast of activities beginning with the APC devotionals on Friday, Sunday, and Monday. The series, which began at 7:00 a.m. in the Wong Kerlee International Conference Center, featured contributors to the new devotional book, *Morning Rounds*, including Penny Duerksen-

Hughes, PhD; Linda H. Ferry, MD, class of 1979-B; and David L. Wilkins, MD, class of 1970.

The Friday evening vespers at the Loma Linda University Church featured music by the Christian Edition Men's Chorus, and special guest artist Laurie Gayle Stephenson. Jon Paulien, PhD, dean of the School of Religion and professor of New Testament at LLU, delivered the homily, titled "Value Added: The Christian Medical Professional."

After a Sabbath school presentation by the anniversary class of 1984, Randy Roberts, DMin, MFT, senior pastor of the University Church, delivered the morning sermon, titled "Living Wisdom." The message is part of Pastor Roberts' continuing series on the Epistle of James. Members of the anniversary classes of 1959 and 1984 shared their talents in both morning services.

The annual Adventist International Medical Society (AIMS) meeting and mission symposium featured a report from AIMS President Jack L. Bennett, MD, class of 1962; an update from the General Conference; a report on the LLU campus student mission program; and the presentation of the 2009 AIMS Global Mission Award to Larry L. Thomas, MD, class of 1974.

The Sabbath evening vespers, sponsored by the National Auxiliary of the LLU School of Medicine, featured music by Heralds of Hope, a men's ensemble under the direction of Gerald Wareham, as well as reports from LLU students who are involved in mission projects in Chad, Haiti, Malawi, and Niger.

Soprano Laurie Gayle Stephen-

son, who played the role of Christine for two years in the Broadway version of "Phantom of the Opera," joined "America's beloved tenor" Daniel Rodriguez, the famous New York City "singing policeman," for a rousing concert on Saturday, March 7, 2009, to conclude the spiritual weekend.

Between 32 different class reunions and the APC banquet, opportunities for socialization abounded at the 77th APC. Speaking of the banquet, the concluding event featured a plethora of camaraderie, great food, and positive memories.

The event—which was held on Monday, March 9, from 6:00 to almost 10:00 p.m. at the DoubleTree Hotel at Ontario Airport—was the crowning social event of the weekend. According to Dennis Park, approximately 500 attendees—including honored classes of 1949, 1959, 1984, and 2009—packed the hall, enjoyed a delicious dinner, and shared the last lingering moments of the 77th APC.

Summing things up, Mr. Park called attention to the faithfulness of LLUM alumni regardless of distractions.

"Despite the economic climate," Mr. Park noted, "we were pleased to see and greet our School of Medicine alumni who returned to the Loma Linda campus to attend APC."

He continues, "The Friday night vespers, Sabbath vespers (sponsored by the National Auxiliary), and Saturday night concert, anchored by the Sabbath services at the Loma Linda University Church, provided for a spiritual weekend that will be long remembered."



Winston Richards, MD (left), incoming president of the LLU School of Medicine Alumni Association, dons a biker cap presented him by Monica Neumann, MD (right), outgoing president. The hat—which features multi-colored flames and the word "President" emblazoned across the front—commemorates the fact that Dr. Neumann found relief from her responsibilities as president by riding a Harley-Davidson motorcycle. She suggested that Dr. Richards might want to do the same. The exchange took place during the 77th Annual Postgraduate Convention banquet on Monday, March 9, 2009, at the DoubleTree Hotel in Ontario. Both Dr. Richards, a Riverside urologist, and Dr. Neumann, an anesthesiologist at LLU Medical Center, are members of the class of 1974.

Art that Heals lecture series set for April 15, 23

BY DUSTIN JONES, MA

John Fox, certified poetry therapist, will be the first speaker in April for Loma Linda University's new lecture series, "The Art that Heals."

Presented by the humanities department of the School of Religion, his lecture will take place on Wednesday, April 15, 2009, at 12:00 noon in the Randall Visitors Center on the campus of Loma Linda University.

Mr. Fox, author of *Finding What You Didn't Lose: Expressing Your Truth and Creativity through Poem-Making and Poetic Medicine:*

The Healing Art of Poem-Making, is an international leader in the movement of poetry therapy.

Samuel Shem, pen name of Stephen Bergman, MD, PhD, a novelist, playwright, essayist, and activist, will be the speaker for the second lecture on Thursday, April 23, 2009, at 7:00 p.m. in the Randall Visitors Center.

Dr. Bergman's classic novel about medical internship, *The House of God* (1978), earned itself the distinction as one of the two most important American medical novels of the 20th century, according to British medical journal *The Lancet*.

His most recent book, *The Spirit of the Place*, is a novel of love and death, of mothers and sons,

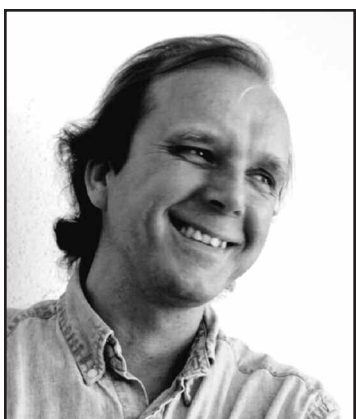
and of doctors and patients.

Both lectures are free to the public and light refreshments will be provided.

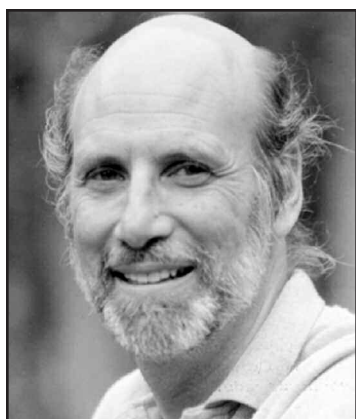
The lectures are being sponsored by the humanities depart-

ment of the School of Religion.

For further information, contact Ramona L. Hyman, PhD, associate professor of humanities, at <rhyman@llu.edu> or by phone at (909) 651-5097.



John Fox



Stephen Bergman, MD, PhD

National Professional Social Workers Month



As reported in the March 9, 2009 edition of *Today*, March is National Professional Social Workers Month. To commemorate the occasion, 26 of the 43 social workers employed at Loma Linda University Medical Center and LLU Children's Hospital gathered recently for a group picture. A large banner over Anderson Street recognizes the vital contributions social workers make to the lives of Inland Empire residents.

Requiem for a fallen giant: historic tree

BY JAMES PONDER

A living repository of Loma Linda history crashed to the ground on Sunday, March 15, 2009, when an 80-foot red gum eucalyptus tree, known to science as *Eucalyptus camaldulensis*, succumbed to gravitational forces, cutting a wide swath of destruction in its path.

No humans were harmed in the incident, but birds and cars didn't fare so well.

A pair of baby owls, who apparently lived in the tree, was shaken; one of them suffered a broken wing while the other escaped injury. According to Gerhard Steudel, director of landscape services at Loma Linda University (LLU), officers from the Loma Linda Fire Department transported the owls to an animal shelter. Mr. Steudel also reports that nine cars were severely damaged in the accident, and two of the vehicles were declared a total loss.

After counting the rings of the tree, Mr. Steudel estimated its age to be between 130 and 140 years old. "It was the oldest eucalyptus tree on campus," he observes. "The reason it fell was old age."

Mr. Steudel says he's proud of the rapid response to the crisis by both the Loma Linda Fire Department, and employees of the landscape department. "My crew of four men arrived at around 12:00 noon," he says. "We began clearing away the branches so that those vehicles which were drivable could be moved out of the way. The two cars directly under the main trunk were a total loss. We pushed the trunk off the cars. I estimate the weight of

the tree to be in excess of 10 tons."

"The tree was really a living legacy," says Richard A. Schaefer, LLU historian. "It dates back to the days before Mound City was renamed Loma Linda in 1900. The entire history of our community is contained in the dendrochronological record of that tree." Mr. Schaefer notes that the tree was here when Ellen White, John Burden, and other founders of the town and its educational and health care enterprises walked the campus.

He also points out that the tree is thought to be the same eucalyptus growing along the right edge of the 1910 photo (below) of the Loma Linda Sanitarium Annex. The Sanitarium, as the Annex was called at the time, had only been open for five years when the photo was taken. "Even though it was not a hospital, we did perform surgery in the building until we built our first hospital west of the hill in 1913," he reports. "The building was razed in 1967."

The bottom left photo shows landscape department employees cutting the massive trunk into manageable pieces, while the top left image illustrates why it's a good thing no one was in the cars when the arboreal goliath fell.

The autos were parked in the lot adjoining Lindsay Hall and Nichol Hall.

In the photograph below, landscape department employee Ruben Gutierrez holds the uninjured owl in his gloved hands. Good thing he wore gloves, too: The bird, still startled by his fall

from the heights, tried to nip Mr. Gutierrez on the hand.

Eucalyptus trees were originally imported from Australia with the intention of using their lumber for railroad ties. However, not until they arrived in California did it become apparent that eucalyptus wood—which warps and splits when it dries—was too fragile for that purpose. Fortunately, the adaptive forefathers found a good use for the trees: They planted them all over the Golden State as picturesque and effective property dividers.

Landscape supervisor Jose Jabier Perez says the tree's root system apparently rotted away. He notes that young roots were trying to get established to support the massive weight of the giant tree, but were unable to maintain it in place once the main roots deteriorated to the point of instability.

To ensure the bizarre incident doesn't happen again, Mr. Steudel and his team will be conducting a campus-wide survey of all trees near parking areas during spring break. "If we find any which might be a hazard, they will be removed," he reports.

While officials were still discussing what to do with the remains of the historic tree as this edition of *Today* went to press, the nine mangled cars and two displaced owls resulting from the crash of this enormous arboreal entity seem to confirm the wisdom of an old American proverb. "The bigger they come," the maxim asserts, "the harder they fall."



This massive 80-foot red gum eucalyptus tree, the oldest tree on the Loma Linda University campus, finally succumbed to gravity on March 15, 2009. Nine cars were damaged by the fall.



After counting the rings of the tree, Gerhard Steudel estimated its age to be between 130 and 140 years old. "It was the oldest eucalyptus tree on campus," he observes. "The reason it fell was old age."



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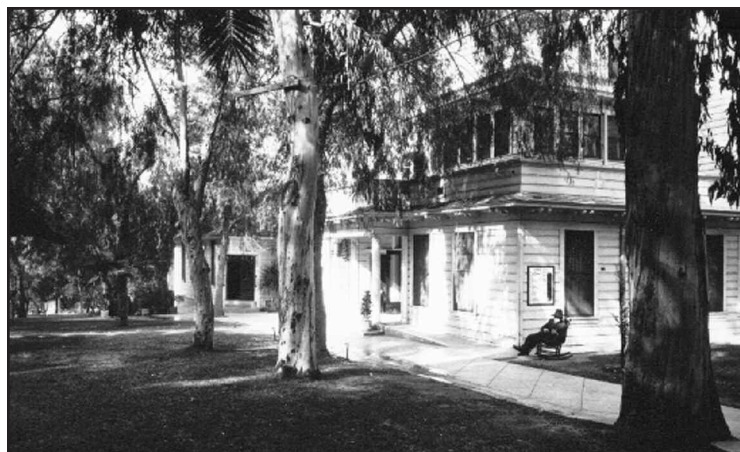
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The tree is thought to be the same eucalyptus growing along the right edge of the 1910 photo of the Loma Linda Sanitarium Annex. The Sanitarium, as the Annex was called at the time, had only been open for five years when this photo was taken.



Freshmen medical students show off their grasp of the Spanish language during parent pay festivities on Friday, February 13.

Medical students *hablan español* during SM parent day festivities

CONTRIBUTED REPORT

On Friday, the 13th of February, Loma Linda University School of Medicine celebrated its annual parent day.

As part of the celebration, a group from the medical Spanish course, taught by Clara Jorge Ramirez, PhD, assistant professor of general studies, demonstrated their language skills.

The students welcomed their parents, relatives, and friends, and introduced themselves in Spanish.

Following introductions, they recited Joshua 1:9: "Mira que te mando que te esfuerces y seas valiente, no temas ni desmayes porque yo soy Jehova tu Dios y seré contigo dondequiera que fueres," which translates: "Have I not commanded you? Be strong and courageous. Do not be terri-

fied; do not be discouraged, for the LORD your God will be with you wherever you go."

The students then proceeded to role-play several physician-patient interviews, demonstrating various medical situations (one dealing with the digestive system and the other with a pediatric case).

Afterwards, the students sang a popular Spanish song, "Besame Mucho" (Kiss Me a Lot), and the short young people's hymn "Amor Amor" (Love, Love).

They finished their presentation with a chain prayer in which each of them added a sentence or phrase to the prayer. They thanked God for a Christian medical school, as well as for parents who support them. They consecrated themselves to the service of God and "to make man whole."

LLUSM alumna to be featured in organ concert at Loma Linda University Church

BY RICHARD WEISMEYER

Loma Linda University School of Medicine alumna Angela Kraft Cross, MD, will present an organ concert on at 5:00 p.m. on Saturday, April 18, at the Loma Linda University Church of Seventh-day Adventists in Loma Linda.

Dr. Kraft Cross is a 1984 School of Medicine graduate and a 1980 graduate from Oberlin College and Conservatory of Music.

She has performed extensively on both organ and piano, having given more than 250 concerts across the United States, Canada, England, Holland, France, Hungary, Lesotho, and Guam. She has played in such places as Notre Dame Cathedral in Paris, Washington National Cathedral in Washington, D.C., and Southwark Cathedral in London.

In addition to her musical

career, Dr. Kraft Cross is a practicing ophthalmic surgeon at Kaiser Permanente Hospital in Redwood City. She is committed to the musical education of young people and since 1997 has been instrumental in organizing an annual organ camp for young pianists.



Angela Kraft Cross, MD

LLA Academy Symphonic Band to perform at LLU Church

BY RICHARD WEISMEYER

The Loma Linda Academy (LLA) Symphonic Band will present a concert on Saturday, April 4, at 5:00 p.m. in the Loma Linda University Church.

Directed by Giovanni Santos, MM, who comes to Loma Linda after serving as instrumental director at Maywood Academy High School in Los Angeles, the symphonic band is composed of 87 members from LLA.

After graduating from San Diego Academy, Mr. Santos

received a bachelor of music degree from La Sierra University (LSU) in 2003. While at LSU, he was student conductor of the wind ensemble and won the music department's annual concerto competition.

He completed his master of music in education degree at the University of Southern California's Thornton School of Music, where he was a scholarship student. His graduate thesis study was focused on teaching beginning brass instrumentalists.

The 5:00 p.m. concert will be a

Coats 4 Kids Drive at SACHS-Norton is successful

CONTRIBUTED REPORT

While the weather may be starting to warm, there are still cold chills in the night air in Southern California.

Thankfully, at least 379 underserved kids in San Bernardino will be able to benefit with a warm coat from Loma Linda University's first annual Coats 4 Kids Drive.

In partnership with the Loma Linda University and Medical Center community, Community-Academic Partners in Service (CAPS) was able to provide the SACHS-Norton clinic with 204 new and 175 pre-owned coats.

"Thank you for your donation of Coats for Kids to our needy families," shares Cynthia Rollins, fund developer at the SACHS-Norton clinic in San Bernardino.

The Social Action Community Health System (SACHS) provides primary care, dental, and behavioral health services through approximately 32,000 patient visits annually to the "working poor"—those who are medically underserved and

in desperate need of care.

"During the winter months, we take a special interest in being able to provide our clients with more than just health care," Ms. Rollins continues, "which includes some additional and very necessary services and assistance."

This year, there was an overwhelming need for basic necessities, such as food and clothing.

"Through donations, we were

able to bring warmth and smiles to so many grateful children," she adds. "We want each of you who helped to know that your gifts matter, and we want to encourage your continued giving—it truly makes a difference."

If you are interested in participating in this drive or any other community service activities, please visit the CAPS website at <www.llu.edu/caps> .



Norma Vargas (right), medical assistant at SACHS-Norton pediatric clinic, poses for a photo with a patient family whose daughter is receiving a new sweater through the Coats 4 Kids Drive.

LLU physical therapy program assists Montemorelos University with developing its PT bachelor's program

BY RICHARD WEISMEYER

Under the direction of Tony Valenzuela, DPT, EdD, assistant professor of physical therapy in the School of Allied Health Professions, the department of physical therapy has been working with Montemorelos University in Mexico in curriculum development for a proposed physical therapy bachelor's level program to begin at the Montemorelos University in 2010.

"Montemorelos University sent Gabriela de Sousa Matias, PT, to Loma Linda for one week to receive help in the curriculum development," Dr. Valenzuela says. "We started from scratch and were able to write a description of every class that will be taught for their four-year program."

"They want to emulate Loma Linda's program and have a strong clinical component," Dr. Valenzuela relates.

Dr. Valenzuela has been invited to be part of the Montemorelos visiting faculty, and Loma Linda is hoping to send a professor to teach a one-to-two-week course once their program is up and running.

Craig Jackson, JD, MSW, dean,

School of Allied Health Professions, agreed to donate plinths, low mats, desks, and tables that Loma Linda's physical therapy department has replaced with new ones.

On March 10, 2009, graduate assistants Mahima Narayanan and Anand Murthy, and Dr. Valenzuela, loaded up a 24-foot truck and drove the donated items to the border crossing in Otay Mesa next to Tijuana. They were met there by ADRA-Mexico representatives

who will be importing the donated items and taking them to Montemorelos University.

"It is great to be able to be in on the planning stages of a new program in one of our sister institutions," Dr. Valenzuela says.

Dr. Valenzuela has been invited by the General Conference of Seventh-day Adventists to assist with physical therapy programs in other countries including Bolivia, Argentina, Brazil, and Chile.



Tony Valenzuela, DPT, EdD, assistant professor of physical therapy (third from left), with graduate students Anand Murthy (left) and Mahima Narayanan (right), and the ADRA representative prepare to load physical therapy equipment for transport to Montemorelos University in Mexico.



Giovanni Santos, MM



The 87-member Loma Linda Academy Symphonic Band will present a free concert at the Loma Linda University Church at 5:00 p.m. on Sabbath, April 4. The band will present a preview of the religious music the group will be performing during a spring tour to Boston.



Kenneth Burke, PhD (center), SAHP professor of nutrition and dietetics, grips some of the plumbing that will accompany the donated kitchen equipment. With him are Barbara Willis (left), director of development at Holbrook Indian School, and Bert Connell, PhD (right), chair of the SAHP department of nutrition and dietetics.



Members of the campus engineering department load a refrigerator on the Holbrook Indian School truck for Ms. Willis to transport back to the school in Arizona.

SAHP nutrition department donates nutrition laboratory equipment to Holbrook Indian School

BY LARRY KIDDER, MA

A truck with the name Holbrook Indian School on its side pulled up to the loading dock at Nichol Hall just after 8:00 a.m. on Thursday, March 19.

The elementary and high school, located in Holbrook, Arizona, one of a kind in North America, is dedicated to the education of Native Americans.

Driver Barbara Willis, who doubles as development director for the school, climbed down and headed for the Loma Linda University School of Allied Health Professions department of nutrition and dietetics laboratory, where students learn the finer points of food preparation and presentation.

That day, the laboratory kitchen was no place for students. A variety of kitchen equipment had been dis-

assembled and readied for the eight-hour trip to Holbrook.

"We are in the process of refurbishing our laboratory kitchen," explains Bert Connell, PhD, SAHP nutrition and dietetics department chair. "This is the second time we've donated equipment to Holbrook Indian School."

Dr. Connell expects the refurbishing of the laboratory kitchen to be completed by this coming August—just in time for the new school year.

Ms. Willis, a retired business education teacher and guidance/testing counselor from Georgia Cumberland Academy (GCA), in Calhoun, has found that her skills at driving the bus for GCA students have come in handy in her new role as development director at Holbrook—and unoffi-

cial truck driver for the school.

"We are planning to upgrade our cafeteria at Holbrook," she explains. "Principal Claymore-Ross has been in touch with Dr. Burke here at Loma Linda."

Kenneth Burke, PhD, SAHP professor for nutrition and dietetics, made the initial contact with Janet Claymore-Ross, PhD, principal at Holbrook, offering to donate the equipment.

"Some of our cafeteria equipment has needed replacing for a long time," Ms. Willis points out. "I'm hoping the new equipment will provide us with impetus to move ahead with our cafeteria."

By the way, she adds, Holbrook Indian School would benefit greatly from a volunteer electrician to wire the cafeteria for the new equipment, which will include two large refrigerators, two freezers, a convection oven, a combi (oven/steamer combination), four stoves, and a dishwasher—as well as all of the accompanying manuals.

Holbrook Indian School, founded in 1941, is the only boarding academy for Native Americans that is sponsored at the union level by the Seventh-day Adventist Church. Owned and operated by the Pacific Union Conference of Seventh-day Adventists, the school serves a diverse group of students including Navajo, Hopi, Cherokee, Apache, and Tohono O'odham.

Volunteer electricians who are looking for an excellent mission project are encouraged to call Barbara Willis at (928) 241-1812 or e-mail her at <bcwillis@att.net>.



On Friday, February 27, 2009, the Walla Walla Valley Academy String Orchestra paid a call on the patients of Loma Linda University Children's Hospital to perform a spirited program of classical and popular instrumental music. Ben Gish, director of the orchestra, welcomed guests to the concert and spoke briefly between numbers about the individual pieces the young musicians performed.

Loma Linda University educates black women about breast cancer clinical trials

BY HEATHER REIFSNYDER

In an effort to someday reduce breast cancer incidence and death among African-American females in the Inland Empire, the LLU School of Public Health put on a program February 22 to educate these women about participation in human clinical trials that seek to lessen cancer mortality.

"Clinical trials are crucial for the development of effective prevention, diagnoses, and treatment for cancer," says Padma Tadi-Uppala, PhD, an LLU associate professor as well as principal investigator on the grant from Susan G. Komen for the Cure Inland Empire that made this educational outreach possible.

About 60 women attended the event, most of whom were African American. They represented breast cancer patients, breast cancer survivors, women at high risk for breast cancer, patient advocates from six area breast cancer support groups, and others.

Breast cancer is more likely to kill an African-American woman than a woman of any other race due to later detection of the disease in this population, according to the United States Department of Health and Human Services.

During the program Dr. Tadi-Uppala presented a version of the National Cancer Institute's clinical trial education program tailored specifically to the needs of African-American women. Prior to the event, Dr. Tadi-Uppala and others in the School of Public Health conducted several community focus groups in order to ensure a culturally appropriate presentation.

Women in the audience also posed questions about treatment options and clinical trials to an expert panel made up of surgical oncologists and researchers from Loma Linda University and LLU Medical Center as well as City of Hope Medical Center, located in Duarte.

The program covered the importance and logistics of clinical trials, including why they matter to women in the Inland Empire, the benefits and barriers of participating, and protection of patient rights.

Only 3 to 5 percent of the more than 10 million American adults diagnosed with cancer participate in clinical trials. African-Americans and other minorities are the least likely to take part in trials, according to Dr. Tadi-Uppala.

Dawn Hopson-Powell of Redlands, who has been free of breast cancer for one year, attended the program and says she learned interesting information about clinical trials. She also enjoyed the camaraderie of being with other African-American women who have been touched by breast cancer in some way, noting that it was a "very positive environment."

The day began with free health screenings for the women ranging from measurements of lean mass and body fat to checking for a narrowing of the blood vessels that can lead to stroke.

Students Arvind Mathur, David Adesanya, Ashwini Erande, and Anurag Arora worked long hours to plan and prepare for the program.



Two-time breast cancer survivor Charlotte Kilgore waits as Devadas Moses, MD, performs a stroke prevention test. Ms. Kilgore is on the board of Susan G. Komen for the Cure Inland Empire affiliate, which sponsored the February 22 event. Margaret Sparks, MA (far right) and Padma Tadi-Uppala, PhD, are also pictured.



Following a health test for factors including body mass index and percent body fat, Dawn Hopson-Powell (right) of Redlands consults on the results with Hildemar Dos Santos, MD, DrPH, a faculty member in the School of Public Health preventive care program.

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Upcoming seminar probes unlikely connection

BY JAMES PONDER

What do breastfeeding, speech and language pathology, and patients with cleft lip or palate have in common?

Far more than meets the eye, according to Melissa Backstrom, MS, clinical manager of speech pathology at Loma Linda University Medical Center, and Gary



Lucas, MS CCC-SP, senior speech pathologist. The pair insists that connections between the seemingly unrelated fields will become very clear at a seminar their department is hosting on Friday, May 8, 2009. Titled "Best Feeding: Putting the Pieces Together in the Craniofacial Patient," the seminar will pack a lot of punch into a short timeframe. "The common denominator is swallowing," Ms. Backstrom explains. "The ability to swallow is extremely important to newborns, yet children born with craniofacial disorders often find it difficult to master." At the seminar, which will be held in the Wong Kerlee International Conference Center from 8:00 a.m. to 4:30 p.m., experts will present the latest cutting-edge information about breastfeeding's crucial role in the development of speech and language capabilities in craniofacial patients. Scientific presentations at the conference will include a discussion by Edward N. Elmendorf, III, MD, director of the craniofacial team at LLU Children's Hospital, on the care and feeding of the newborn infant with cleft palate; a summary of the genetics of orofacial clefts by Subhadra Ramanathan, MS, a certified genetics counselor at LLUMC; an overview and update

of cleft care from the surgeon's perspective by Mark C. Martin, MD, DMD, FRCS, a craniofacial, plastic, and reconstructive surgeon at Loma Linda University Health Care; and a discourse on breastfeeding babies born with cleft lip and/or palate, by Gini Baker, RN, MPH, IBCLC, program coordinator of perinatal health programs at the UC San Diego extension.

For the reasonable charge of just \$60 for LLUMC employees or \$100 for all others, the seminar offers 6.5 continuing education units (CEUs) to a variety of health professionals including physicians, nurses, case managers, speech pathologists, social workers, and others. Registration is available by calling the staff development office at (909) 558-3500.

teller clouds, and distant hills. Can you imagine what this place looked like back in the Miocene? Scientists say it was crawling with camels, mastodons, sabre-tooth tigers, and even horses back then. Right now, it's pretty much snakes and lizards.

Welcome to Rainbow Basin! Bet you weren't expecting these green hills; or those yellow, white or red ones, either. Anywhere else and you'd think the green was from some sort of ground cover, but out here it's the natural color of the clay.

Let's explore the colorful rocks on this side canyon. They come in all hues. Besides green clay, there's red rhyolite, white tuff, black and red lava, and jaspers in several shades. Here's a band of shiny green stone that looks like jade. There are lots of plants, too—Joshua trees, desert holly, beavertail cactus, cholla, and a host of little dry grasses.

I bet the basin is ablaze in springtime. I've seen pictures of wildflowers in yellow, lavender, red, white, and blue. The beavertail cactus, or *Opuntia basilaris*, has awesome rose-purple-magenta flowers the size of navel oranges. If you ask me, the artistry of cactus flowers is one of the most awesome spectacles

in the world of nature.

See that honeycomb ridge protruding from the lip of that hill? From here, it looks like it would crumble under the weight of a feather. I wonder if it's fragile? I also wonder how it got up there? It's only 30 feet off the ground. Let's climb that ridge over there to the right and see.

Wow! Who knew such a small change in elevation would make such a huge difference in perspective? That rocky hillside across the gully juts up like a sinking ocean liner. See any fossils up here? Rainbow Basin, which scientists call part of the Barstovian Formation, is one of the richest fossil beds in the world. Paleontologists have unearthed thousands of bones out here representing a wide variety of long-extinct species. Picture a giant sloth lumbering up the ravine.

OK, so the honeycomb ridge isn't so fragile after all. It's made of some kind of hard, semi-metallic stone. Its interlocking, waffle-shaped ridges feel like iron or manganese. The way they join together looks like the looping, disjointed embroidery of a drunk spider.

This is my third trip to Rainbow Basin. I don't remember the

first one; my dad brought me here when I was 4 years old. He says there were fossils sticking out of the hills back then. I guess one too many tourists came along and collected the ancient bones, because we haven't found any today. What we do see are the "phantasmagorical" forms of giant mud clumps two stories high and dried into sandstone shapes like melted ice cream. The fact that they're the same color as Baskin-Robbins' pistachio almond only enhances the illusion of edibility.

Geologists call the tilt of these hills a syncline. Imagine a stack of papers 12 inches high sitting on your desk. Drop a heavy paperweight in the middle of the pile and what happens? The edges curve up to form the trough that geologists call a syncline. Now suppose that instead of paper, the sheets are composed of vast plates of drying clay, and that the syncline form is caused by tectonic forces pushing up from beneath the pile instead of a huge paperweight falling out of the sky. Geology becomes interesting the moment you engage the imagination.

I don't know about you, but all this hiking and exploring has left

Please turn to page 7

Harbinger of spring



Spring weather conditions may have seemed to delay their arrival this year, but as this robust calla lily depicts, the season of flowering and growth has finally arrived. The flower was photographed behind Magan Hall on the campus of Loma Linda University on the morning of Tuesday, March 17, 2009.

At the 'Miocene' of the crime in Rainbow Basin Natural Area

BY JAMES PONDER

Sherlock Holmes called the other day. He said you need a good mystery to spice up your life.

So how about a day trip to a whodunit of epic proportions? We'll take a leisurely drive up Interstate-15 to solve the riddle of who, or what, killed all the prehistoric critters whose bones keep turning up at Rainbow Basin Natural Area near Barstow. I'll pick you up Sunday morning at 9:00.

OK, we're en route to Rainbow Basin. Have you been there before? I know you'll love the area—it's one of the unsung jewels of the Southwest. It's mystical and colorful, and jam-packed with the fossilized remains of exotic mammals and birds that stomped around the desert in the ancient past.

How long in the past? Depends on whom you ask. Evolutionists say the basic form of the basin was carved out by geologic upheaval 12 to 16 million years back during the Miocene epoch. Creationists say it happened sooner, perhaps as recently as a few thousand years ago during Noah's flood.

What they agree on is that a whole mess o' critters got mired in the muck, to paraphrase the venerable and colorful Jed Clampett, and perished in some kind of mysterious calamity. I'm beginning to think otherwise. I'll explain later.

Fast forward to 2009 and the area suddenly becomes intriguing

to geologists, paleontologists, and "sereniologists." You're right, there's no such word, but there should be: There's a palpable sense of serenity at Rainbow Basin, and after an hour or so, it seeps inside your bones. Sereniology is a beautiful thing!

Forgive me for not mentioning this sooner, but we're already in Barstow. The trip only took an hour and 15 minutes from San Bernardino. Like the frog said, "Time's fun when you're having flies!"

We got off the freeway at Barstow Road, turned left on Main Street, and right at First Avenue. Right now we're crossing the bridge over the railroad yard. See that sprawling depot down there? That's the old Harvey House. They've got a neat Route 66 museum and gift shop inside. We can swing by later for T-shirts and souvenirs. Right now, we're turning left on Irwin Road. In another five miles, we'll follow the sign to Rainbow Basin.

How do you like Fossil Bed Road? Nothing like the ruts of a dirt road to limber up the backbone! We'll turn right about three miles up ahead, and meander into the hills to Rainbow Basin. In the meantime, enjoy these wide-open spaces. A person can never get too much of expansive blue skies, story-



The Greening of LLUAHSC—Part Three...

Continued from page 8

natural resources as possible, and recycles every one they can. “We haven’t hauled any green waste to the landfill since 1986,” he reports. Instead, workers feed plant-based organic debris—grass clippings, dead leaves, and tree trimmings—into a tube grinder that pulverizes everything to mulch. Not only does it save thousands of dollars in landfill fees, it also significantly reduces the need for expensive and harmful chemical fertilizers.

The department practices reforestation at every opportunity. “We try to replace every tree we are required to cut down with two new ones.” Not only do the new trees beautify the campus, they also reduce the organization’s carbon footprint, and improve air quality in the Inland Empire.

Mr. Steudel and his team use organic fertilizers, which reduce the possibility of groundwater pollution, and integrated pest management, which means they only employ pesticides when there’s no other way to control or eliminate infestations. Plus, they recycle as much of the trash the workers pick up around campus as possible, and replace water-guzzling plants and lawns with drought-resistant alternatives at every opportunity.

Mr. Steudel concludes his inventory of earth-friendly actions his department is taking by noting that a full 50 percent of his staff carpools to work.

energy-saving renovations to the chilled water system used for cooling buildings and equipment. The project showpiece is a 6,000,000-gallon thermal energy storage tank under construction alongside the Anderson Street overpass. These innovations will greatly reduce the amount of electricity the organization uses on an annual basis.

The recycling program instituted inside operating rooms and surgical suites of Loma Linda University Medical Center by the department of environmental services will save billions of tons of recyclable surgical materials every

year once it is replicated at thousands of other hospitals around the world. The department—which uses 100 percent green-friendly cleaning supplies and equipment—is currently in the middle of implementing a facility-wide recycling program for paper, plastic, glass, and aluminum.

In 2008, LLUAHSC recycled more than 1.6 million pounds of paper, thereby saving the equivalent of 1.5 million gallons of water, recycled 55,000 pounds of electronic devices, and preserved 13,377 trees from destruction. All that recycling also saved money,



Donna Gurule, environmental health and safety officer in the department of risk management, says that even though Loma Linda University Adventist Health Sciences Center (LLUAHSC) has made great strides toward becoming an ecologically friendly organization in recent years, there is room for improvement. She points beyond the success of LLUAHSC recycling efforts to the need for a campus-wide commitment to the goal of a neutral or negative carbon footprint.

At the ‘Miocene’ of the crime...

Continued from page 6

me hungry enough to eat a mammoth! Shall we go into Barstow for lunch?

You pick the restaurant; I botched it last time I came to town.

The place I selected looked fine from the road, but the food was horrendous. The scrambled eggs tasted like molded yellow plastic. I took one bite and nearly

gagged! The pancakes were no better; they tasted like maple-flavored sandstone. Worst food I’ve had in years!

Say, you don’t suppose that place was open for business during the Miocene Epoch, do you? If so, that would certainly explain what killed the dinosaurs!

You want to alert the Smithsonian, or shall I?

something of an endangered commodity itself these days.

The department of parking and transportation’s shuttle bus rideshare program transports between 25,000 and 32,000 riders per month. That translates to 97,000 gallons of gasoline conserved per year, and an almost-inescapable reduction in harmful emissions since short haul trips—the ones the shuttle program replaces—produce the highest levels of air pollution.

In assessing these accomplishments, Richard Hart, MD, DrPH, president and CEO of LLU, assures us that “Loma Linda University has clearly endorsed the commitment to a greening of the campus. Our new thermal energy storage tank will add to the efficiency of our existing cogeneration plant.”

Dr. Hart also notes that, “we are seeking to implement a number of other measures across campus to assist in this effort. New buildings will be designed with a strong commitment to energy efficiency.”

But do these measures go far enough to safeguard the health of our planet in this age of dwindling energy supplies, global warming, and melting polar ice caps?

Not everyone is convinced that they do. Donna Gurule, environmental health and safety officer in the department of risk management, points out that despite admirable efforts on the part of many, LLUAHSC as a whole still consumes far more natural resources than it conserves. In reiterating her call for a campus-wide environmental management system that integrates sustainability, she suggests that we benchmark our efforts on a university in British Columbia that has achieved the highly desirable goal of a neutral carbon footprint.

How can LLUAHSC attain such a worthy goal? Ms. Gurule is quick to respond. “By making many changes, large and small,” she replies. “We need low-fluorocarbon light bulbs in every receptacle of our campus. We need to identify additional ways to lower water consumption, especially during times of drought. We need to educate and encourage our employees to purchase fuel-efficient vehicles. We

need expanded transportation to transport guests and staff around the campus, which is growing. We need to investigate the economic and ecological advantages of solar and wind energy.”

The list goes on, but Ms. Gurule says the most important step is to determine the final outcome we want to achieve. “What we need most,” she concludes, “is to ask what kind of organization we really want to be when it comes to protecting the natural environment: Are we content to merely comply with regulatory agencies and pay lip service to saving the earth, or do we have the courage to become an exemplary powerhouse of environmental stewardship for the Inland Empire, Southern California, and the world? Once we know our intentions, it becomes much easier to put effective practices and policies into play.”

“If we decide we really do want to make a difference, we can benchmark off other institutions that have gone down this path,” she asserts. “The bottom line is, we need to conduct a thorough green audit, either in-house or through an outside agency, to develop a comprehensive LLUAHSC environmental management statement, complete with safeguards to guarantee accountability.”

Ms. Gurule has one final observation to make before concluding her remarks.

“Let’s not leave the Church out of it, either,” she insists. “As a Christian organization, LLUAHSC has a moral obligation to not only preserve our environment and use our resources wisely, but to point the way for other church entities to follow. A lot is riding on what we do now!”

Back in the 1960s, debilitating air pollution obscured the sun over Loma Linda many days of the year. Smog seemed like an insurmountable obstacle then, but thanks to a variety of innovations, skies over the area are much cleaner today.

In a similar fashion, global warming and ecological catastrophe seem invincible now, but perhaps they’re not. Maybe all it will take is for one courageous institution to lead the way by assigning its highest priority to making not only man, but also his planet, whole.



Gerhard Steudel, director of landscape services for Loma Linda University, showcases the natural appearance and feel of the artificial turf workers in his department recently installed at the employee entrance to the LLU School of Dentistry. Given the constraints of a mandatory 30 percent reduction in water consumption this summer, Mr. Steudel is eager to implement water- and energy-saving products whenever possible. The lawn requires no water, fertilizer, or mowing.

Summer Camp at LLU Drayson Center. Yea!

The LLU Drayson Center and XRtainment® are teaming up this summer to provide a full day of active fun and interactive classes Monday through Friday for kids ages 6–14.

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Big Hearts for Little Hearts Guild supports pediatric intensive care unit transport team

CONTRIBUTED REPORT

Nearly 300 members and supporters of the Big Hearts for Little Hearts Desert Guild gathered for their annual luncheon on February 4, 2009, at the Renaissance Esmeralda Resort in Indian Wells, California.

During the event, attendees shopped at a special boutique where 20 percent of purchases were donated to Loma Linda University Children's Hospital. In addition, many participated in the "Little Art for Big Hearts" drawing with prizes including a St. John leather handbag and a "Day at Macy's" fashion consultation for six, including lunch. Prior to the luncheon, members of the pediatric intensive care unit transport team visited each table, enthusiastically selling tickets for the drawing. Guests also enjoyed informal modeling of clothing created by the designer Sarit.

Following a warm welcome from Lainie Weil, guild president, attendees learned about the delicate and lifesaving care provided in LLU Children's Hospital neonatal intensive care unit (NICU) from Ricardo Peverini,

MD, chief, NICU. Dr. Peverini thanked the group for its tireless support of Children's Hospital and for the recent gift of funds, which were used to build a neonatal intensive care unit pharmacy.

Following Dr. Peverini's presentation, the audience was delighted by a vocal solo performed by young Maddison Rotner (Maddison was present and her solo was performed via video because of an unexpected cold).

According to event organizers, the day was a success with guild members learning more about the lifesaving care offered by Loma Linda University Children's Hospital.



Lainie Weil, president, Big Hearts for Little Hearts Desert Guild, welcomes nearly 300 guild members and supporters to the annual luncheon and boutique sale.



Present for the luncheon were (standing, from left): Patti Pettis, executive director, philanthropy; Donna Hadley; Diane Adolph, wife of La Quinta mayor Don Adolph; Lainie Weil, guild president; Christi Bulot; and Bonnie Timarac (seated).



Ricardo Peverini, MD, chief, neonatal intensive care unit, Loma Linda University Children's Hospital, thanks members of the Big Hearts for Little Hearts Guild for raising funds used to build a neonatal intensive care unit pharmacy.



Lori Rives and Victor Bannis, members of the pediatric intensive care transport team, sell tickets for a drawing to Big Hearts for Little Hearts luncheon attendees.

LLUSN students raise funds for SACHS-Norton

CONTRIBUTED REPORT

During the week before Valentine's Day, the School of Nursing hosted a week-long bake sale, with all proceeds going to the SACHS-Norton clinic.

The students and faculty brought baked goods, including cookies, chocolate-covered strawberries, cakes, and cupcakes.

Healthy foods such as fruits, nuts, and soups were also available for purchase.

From 11:00 a.m. until 2:00 p.m. from Monday through Friday, the Association of Student Nurses (ASN) scheduled an officer to be in charge of the table.

Faculty members including Ellen D'Errico, PhD, RN; Marian Llaguno, MS, RN; and Zelne Zamora, MS, RN, provided soups, eggrolls and rice, and egg salad sandwiches as lunch items, as well as the baked goods.

Ms. Zamora also serves as

sponsor for the ASN.

Students and faculty from both the School of Nursing and School of Pharmacy bought items.

The bake sale was able to raise nearly \$600, with the rest of the monies donated from School of Nursing faculty.

Bertie Ruan, ASN president, and Page Roque, senior class presi-

dent, accompanied Ms. Zamora on a shopping spree to buy much-needed diapers and clothing for children and adults with the \$600.

"The School of Nursing was very happy with sharing our love with others, as is the mission of this University," says Ms. Zamora. "We thank those who helped to make the bake sale a success."



Page Roque, senior class president (left), and Bertie Ruan, ASN president, pose for a picture with the items purchased for SACHS-Norton.



Construction workers examine the site where a new 6,000,000-gallon chilled water storage tank will be built. When completed, the behemoth structure will store chilled water used to cool buildings and equipment all over campus. The Anderson Street overpass is seen behind the trees in the center of the picture.

The Greening of LLUAHSC—Part Three

BY JAMES PONDER

This is the conclusion of a three-part investigative report into what Loma Linda University Adventist Health Sciences Center (LLUAHSC) is doing to benefit the natural environment. This final segment will explore the eco-friendly efforts of the landscape department before re-capping the major achievements reported in previous editions. Then it will ask the one tough question which will determine whether the organization becomes a champion for the health of the planet or not.

Stand on the lawn in front of the employee entrance to the LLU School of Dentistry and see the landscape department's newest green weapon in the battle to save resources such as water, gasoline, fertilizer, and labor. It's a patch of

lifelike artificial turf that needs no mowing, watering or feeding. The well-groomed surface is also apparently people-friendly; visit during lunch hour, and you may see folks sunning themselves on the test patch as they do on real grass.

Gerhard Steudel, MBA, director of landscape services, says the campus may use more of the turf in the future. "Despite the recent rains, the state of California is mandating a 30 percent reduction in water this summer," he says. He adds that major reservoirs are down, and the Colorado River is well below healthy levels due to shortages that threaten cities and hamlets across the American Southwest.

Mr. Steudel points with pride to the fact that his team uses as few

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• LOMA LINDA UNIVERSITY Heart & Surgical Hospital
• Faculty Medical Group of LLUSM
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LOMA LINDA UNIVERSITY

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