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SCIENCE AND TECHNOLOGY

NSF-funded AIM lab opens LLU School of Medicine

By James Ponder

Thanks to generous support from the National Science Foundation (NSF) and the office of H. Roger Hadley, MD, dean of the LLU School of Medicine, Loma Linda University recently joined the ranks of an elite group of academic health science institutions when it unveiled the new Advanced Imaging and Microscopy (AIM) Core Facility in the research wing of the LLU Medical Center on Tuesday, February 22.

According to Sean M. Wilson, PhD, associate director of the AIM core facility, the acquisition represents a wonderful accomplishment for the university.

As an NSF-funded university core facility, high-technology equipment is now available for training and research by faculty and students across the campus. It is also accessible for extramural purposes for researchers from other universities, as well as individuals in the biotechnology community.

Dr. Wilson notes that the combined monetary value of the project—including the NSF grant and School of Medicine contribution—totals approximately \$1.5 million.

As principal investigator for the NSF grant, Dr. Wilson is one of three researchers responsible for bringing the AIM laboratory to LLU. The two co-principal investigators—Steven M. Yellon, PhD, director of the AIM laboratory and professor in the division of physiology, and Lawrence D. Longo, MD, director of the center for perinatal biology—share Dr. Wilson’s enthusiasm for the new laboratory.

“This represents an outstanding accomplishment and technological advance that will make a significant contribution to education, students, and biomedical sciences research at LLU,” Dr. Longo says. “It will advance the frontiers of cell biology and biomedical science at the university.”

The centerpiece of the new facility is a brand-new LSM 710 NLO laser-scanning, confocal microscope manufactured by Carl Zeiss Microimaging GmbH, of Germany. Needless to say, the instrument is creating quite a stir at the university.

“The confocal microscope will be used by a team of researchers from different disciplines throughout our campus,” observes Dr. Hadley. “Having this modern piece of technology keeps Loma Linda University on the cutting edge of world-class research.”



Steven M. Yellon, PhD, director of the Advanced Imaging and Microscopy laboratory, explains the workings of the new LSM 710 NLO laser-scanning, confocal microscope the university recently acquired with National Science Foundation support, as well as assistance from the office of the dean of the LLU School of Medicine. Dr. Yellon says the new microscope—which he describes as “one of the most sophisticated in Southern California”—allows researchers to study the movement of molecules within live cells and tumors in humans.

“It’s definitely one of the most sophisticated microscopes in Southern California,” Dr. Yellon says. “With this technology, we can even study the movement of molecules within live cells and tumors in humans.”

“The Zeiss LSM 710 NLO will be used to address a broad array of biologically relevant questions that cross disciplines and fields of study,” Dr. Wilson adds. He notes that

researchers will use it “to educate the next generation of scientists and advance research into fundamental processes of cellular interactions and adaptive mechanisms that sustain biological function.”

One underlying reason for the excitement over the AIM facility and its new high-resolution microscope concerns the ability of scientists to perform translational research, defined as studies that bridge the gap between the basic sciences and clinical applications with direct patient benefit.

According to Dr. Wilson, many LLU researchers will use the new microscope to study regulation of cell growth, differentiation, and function, while others will explore more integrative processes.

“One key example is studies that seek to understand the functional activity of immune cells in processes that restructure the extracellular matrix of the cervix in preparation for birth,” Dr. Yellon says. “The hypothesis that this inflammatory process depends upon neural signals to recruit and activate immune cells will be addressed with the microscopy system because immune cells with markers of functional significance will be visualized to promote understanding of cellular interactions.”

Dr. Yellon explains that the process is “especially important for women since preterm birth has become a significant clinical problem. Another example is the analysis of brain sections to understand movement and activation of cells from blood vessels as it relates to

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INTERNATIONAL RECOGNITION

Zhejiang Provincial People’s Government presents friendship award to LLU Global Health Institute associate director



Jan Zumwalt, MBA, MS, associate director of the Global Health Institute at Loma Linda University, holds a special certificate given to her by the Zhejiang Provincial People’s Government on September 15, 2010, in Hangzhou, China.

By James Ponder

The Zhejiang Provincial People’s Government presented the very prestigious West Lake Friendship Award for Foreign Experts to Jan Zumwalt, MBA, MS, associate director of the Global Health Institute at Loma Linda University (LLU), in a September 15, 2010, ceremony in Hangzhou, China.

“I received a beautiful medal from the vice governor of Zhejiang Province,” Ms. Zumwalt says. “It was like an Olympic medallion; it was really quite nice!”

A photo of Ms. Zumwalt and her medal was featured in *The Qianjiang Evening News* along with a caption that extolled both her 18-year friendship with the people of Zhejiang Province and her role in assisting Sir Run Run Shaw Hospital (SRRSH) in becoming the first public

STUDENT EXCELLENCE

Student and future dietitian headed to Johns Hopkins for clinical practicum

By Heather Reifsnyder

Nutrition and dietetics student Ksenia Koudriachova (known as KayKay) is hitting the road this summer, taking her passion for healthy living to a competitive clinical practicum at Johns Hopkins Hospital. "I'm expecting to have a challenging and growing

experience," says Ms. Koudriachova, a native of Vladivostok, Russia. She will spend 10 weeks in Baltimore with patients on the hospital floors.

What Ms. Koudriachova loves about the field of dietetics is counseling people on better eating habits. She gained experience doing just that during her community rotation at LLU's

Drayson Center, where she and her colleagues hosted weekly nutrition classes. She also did an administrative rotation in Nome, Alaska, in the summer of 2010.

"There's no better feeling than to guide someone to achieve health," she says. "It is my passion to present healthy living in a way that's approachable and simple."

Her advisor, Maxine Taylor, EdD, RD—assistant professor and clinical coordinator of nutrition and dietetics, School of Allied Health Professions—said she expects Ms.

Koudriachova to do well at Johns Hopkins. "She is an excellent student and is very anxious to learn and share her knowledge with others," says Dr. Taylor.

The nutrition and dietetics department's relationship with Johns Hopkins began in 1999 due to Dr. Taylor's connection with a student she used to teach at Oakwood College in Alabama.

The student, Joycelyn Peterson, went on to become a registered dietitian who formed her own consulting company in Maryland.

Continued next page

National Science Foundation-funded facility to open at Loma Linda University School of Medicine ...

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brain dysfunction that occurs with age, stress, or stroke."

The range and quality of studies made possible by the acquisition of the new microscope are almost limitless. In the project summary that brought the NSF grant to LLU, Drs. Yellon and Wilson observe that the new equipment "will significantly enhance the research and training activities of 23 active researchers from 10 separate departments, research units, and centers at Loma Linda University." So far, they've already trained more than 30 people to use the instrumentation, and expect that more than 100 post-doctoral, graduate, and undergraduate students will benefit directly from the new technology.

"The capabilities provided by this instrumentation will have immediate and enduring impact on many members of the Loma Linda University biosciences research community, increasing the quality and productivity of their research and training," Drs. Yellon and Wilson believe.

Research conducted in the AIM laboratory will be cross-disciplinary and will include applications in live cell and tissue imaging, as well as physiology, histochemistry, and morphology. Currently, Drs. Yellon, Wilson, and Longo are

busy writing a training program to teach other researchers about light microscopy and techniques in order to train them to use the new equipment for a variety of research applications. They are also developing a website with materials generated by users for research and educational purposes, and organizing a series of workshops to help students and other members of the bioscience community navigate their way around the near-infinite possibilities of the new core facility.

After several years of submitting applications for this system, Dr. Yellon is pleased for two reasons: first, that the award by the NSF recognizes the potential for improving infrastructure resources at the university, and second, that Dean Hadley and the School of Medicine are firmly committed to academic and research excellence.

"The NSF's major research instrumentation grant is a highly competitive national program," he says. "They only fund a few of these every year. This award means they view LLU as a strong research facility. We are grateful not only for their faith in what we're doing, but also for the confidence the dean's office has demonstrated by its generosity; the office really does have our students' best interests in mind. We are blessed and very fortunate!"



Researchers (from left) Steven M. Yellon, PhD, Sean M. Wilson, PhD, and Lawrence D. Longo, MD, discuss the capabilities of the new Zeiss LSM 710 laser-scanning, confocal microscope recently acquired as the centerpiece of the new Advanced Imaging and Microscopy (AIM) laboratory at Loma Linda University. Dr. Yellon serves as director of the laboratory; Dr. Wilson is associate director, and Dr. Longo is director of the center for perinatal biology. The AIM laboratory—which opened in room A522 of the research wing of Loma Linda University Medical Center on February 22—will allow scientists to conduct extremely specialized studies in cell biology and biomedical science. "This represents an outstanding accomplishment and technological advance," Dr. Longo observes.

Zhejiang Provincial People's Government presents friendship award to GHI associate director ...

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hospital in China to be accredited by Joint Commission International.

The red-bordered award certificate is inscribed in both English and Chinese: "This Certificate of West Lake Friendship and West Lake Friendship Medal are awarded to Janice Rae Zumwalt in appreciation of your enthusiastic support for Zhejiang Province's construction and your friendly cooperation."

Although 22 people received the award at the same time as Ms. Zumwalt, she was chosen to deliver the response speech for all the awardees. Other winners included a nuclear energy consultant, inventor of a rice grinder, and a visiting professor at Zhejiang University. Besides the United States, honorees hailed from Australia, Canada, Germany, Japan, and Korea.

"It is a tremendous privilege to be part of the honored foreign experts who work here in Zhejiang Province and represent diverse fields, including the areas of education, agriculture, mechanics, agriculture, and health care," Ms. Zumwalt said in her opening remarks. "I would like to express my deep appreciation to the Provincial Government for this important recognition and to the Zhejiang Administration of Foreign Affairs for organizing this wonderful ceremony. In addition, I am deeply touched by

the recognition from Dr. He Chao and my colleagues at Sir Run Run Shaw Hospital.

"For the past 18 years," she continued, "I have had the good fortune to work with the most motivated and forward-thinking staff at SRRSH. More recently, over the past four years, I have worked with the equally talented staff of Zhejiang University Children's Hospital, and the Zhejiang University School of Medicine. It has been amazing to see the development of these three facilities, as well as the growth and changes in the city of Hangzhou and Zhejiang Province."

Ms. Zumwalt became involved in efforts to upgrade Chinese health care practices in 1992 when she first traveled to SRRSH to serve as liaison between that institution and LLU.

She was first informed that SRRSH officials intended to nominate her for the award in February of 2010.

Criteria used in evaluating nominees for the highest honor Zhejiang Province confers on non-citizens include: introducing new technology and equipment to solve regional problems; tackling key problems in science, industry, and technology; contributing to the construction, production, operation, and management of major projects; training competent personnel

and researchers; and facilitating the friendly, cross-cultural exchange of ideas.

In nominating Ms. Zumwalt for the award, SRRSH President He Chao, MD, took three pages to outline the breadth of Ms. Zumwalt's contributions to Chinese health care and her impact on health reform throughout the world's most populous nation. He noted that Ms. Zumwalt has made an estimated 50 trips to Hangzhou and considers the capital city of the province her second home.

"I am pleased to write this letter to nominate Jan Zumwalt, MBA, MS, for the West Lake Friendship Award," Dr. He noted. "My support of her nomination is based upon her more than 18 years of dedicated work and service to the people of Zhejiang Province."

"As President of Sir Run Run Shaw Hospital," he continued, "I have had the privilege of working with Ms. Zumwalt and have known her for over 10 years. She has made notable contributions in the areas of nursing practice and hospital management, which have contributed to improved hospital standards of care. This has made it possible for SRRSH to now be fully accredited by Joint Commission International, a U.S.-based independent international hospital accrediting organization."

The West Lake Friendship Award program grew out of a series of awards given in the 1950s by then-Premier Zhou Enlai to visiting technical and military advisors from the former Soviet Union and Eastern European countries for assisting with China's modernization.

The State Administration of Foreign Expert Affairs resumed the program in 1991 and Zhejiang Province set up the West Lake Friendship Award in 1997.

The award is named after the beautiful and legendary body of water located in the center of Hangzhou. Surrounded by hilly peaks on three sides, the shores of the lake are ringed in forests and punctuated with temples, shrines, restaurants, and resorts. It is widely regarded as not only one of the most beautiful features of Zhejiang Province, but a cultural treasure as well.

Perhaps no one summarized the value of Ms. Zumwalt's contributions better than Dr. He.

"We are privileged to call her a friend, champion, and ambassador of SRRSH, Hangzhou, and the People's Republic of China," he noted in his application to the awards committee. "By positively impacting the health care in Zhejiang Province, Ms. Zumwalt is a true friend for the people of our city and province."

Continued from previous page

Dr. Taylor began to send students on clinical rotations to Ms. Peterson, who arranged for them to also spend several days at Johns Hopkins. Even since Ms. Peterson moved (she is now completing a DrPH from the LLU School of Public Health), the hospital has continued to accept LLU students, now on a full-time basis.

During her time at Johns Hopkins, Ms. Koudriachova will participate in patient rounds with health care teams and counsel patients on nutrition, according to Dr. Taylor. She will assess inpatients' nutritional status, determine evidence-based recommendations for diet modification, and teach both individuals and groups how to change their eating behavior to improve health.

Dr. Taylor points out that students at Johns Hopkins have participated in a wide variety of experiences from observing organ transplanta-

tion, to recipe development, to web design, and menu review.

"Student dietitians at Loma Linda University benefit from assigned supervised practice experience at a broad spectrum of excellent facilities from Alaska and Hawaii to Florida, Maryland, and Maine," says Dr. Taylor.

"Each facility brings the classroom learning to life in a somewhat different format," she adds. "Students return to the university to share with classmates and new students the learning from the facilities to which they were assigned. Thus each benefits from the opportunities of others."

In June, Ms. Koudriachova will graduate from the School of Allied Health Professions with a master's degree in nutrition and dietetics. She plans to sit for the registration examination for dietitians from the Commission on Dietetic Registration of the American Dietetic Association in September.

STUDENT OUTREACH

Student's love for missions further quickened during Honduras trip

By Emily Pinkerton, occupational therapy student

Mission Service to Pena Blanca, Honduras, and the Pan American Health Service (PAHS), an organization that provides nutrition, medical assistance, and education to starving children.

This past December, Shane Gemoto, Yvette Paquin, and I embarked on a week-long trip with LLU's Students for International

Some of the children never go home after they



Student Yvette Paquin wears a big smile as she works with kids in art therapy at the mobile clinic in town.

recover, and they are able to live and grow up on the campus in the PAHS homes.

During the previous mission trip to PAHS last year, Shane Gemoto and I were in charge of designing and implementing a play/art therapy program. For this mission trip, we focused on re-evaluating the program with the help of Yvette Paquin, and we made any necessary adjustments to further align the program with the children's skill levels and interests.

We were in charge of redesigning the program, buying and bringing supplies, and then implementing it with the children at PAHS, as well as some of the village children during a mobile clinic.

Our educational background in occupational therapy seemed like a natural fit for this type of mission assignment, and we were eager to use our skills and our hearts to assist in any way possible. In addition to our play/art therapy program, there was a medical and dental group composed of preceptors and Loma Linda University students.

The play/art therapy program was not the only instance in which we put our occupational therapy skills into action.

There was a beautiful, bubbly 5-year-old girl named Lily with a diagnosis of spina bifida. She had no functional use of her legs and was limited in her trunk control. She would either have to be carried or pushed in a stroller to get around and play with the children.

Her parents worked and lived at PAHS. When she was not sitting quietly on the ground playing, she was accompanied by her two best friends, who would push her wildly around the grounds in her stroller, striking up a resemblance to the "Three Amigos!"

Dentist Thomas Wieg, DDS, had received a donation of an adult-sized powered wheelchair that he had shipped to PAHS. An LLU alumnus, Dr. Wieg, is actively involved with PAHS in addition to his practice back in California.

At his request, Yvette and I performed a wheelchair evaluation with Lily for modifications to be made before the chair was given to Lily and her family.

At first, Yvette and I were very concerned that Lily might get hurt. The chair was very heavy and could easily run over little feet or tip off a landing; the speed dial of the chair was located

within reach of Lily, and the surfaces at PAHS varied and included many different types of terrain. Also, there were many instances when Lily was not supervised, and we feared the wheelchair would be treated more as a toy than as a way to get around.

We brought up our concerns and recommendations for the physical alterations of the wheelchair to Dr. Wieg and his wife, and we problem-solved a way that Lily could still use her chair for functional activities until we were satisfied that she would be safe.

In addition to the wheelchair recommendations, Yvette and I put together a list of exercises for Lily that would not only strengthen her muscles, but also provide a fun activity to motivate her to do the exercises. For example, for one exercise we recommended her lying down in the supine position and pulling herself into a sitting position, while catching a ball to strengthen her abdominal muscles. We also talked about starting a bowel/bladder training program with the family in hopes of eventually getting Lily on a regular schedule.

At the end of our meeting with the parents, they requested to pray with us—Yvette, Melissa Bassham (our translator), and I. We circled around to pray, and the father prayed a beautiful prayer in Spanish, thanking the Lord for answering their prayers. It was a very powerful and surreal moment and an incredible blessing to be a part of. It felt so amazing to be able to help the family in that way—a perfect mixture of science, heart, and God.

Moments like those are the things that keep bringing me back to medical missions, in part instilling a great sense of responsibility to use this gift that God provided me to the fullest.

As with any mission trip, using your special skill set is not the only way that you reach out to these children. Perhaps the most important thing of all is the connection and love that occurs, a love that changes the individuals involved forever.

It was amazing to walk off that bus and be greeted by a sea of shining faces lit up with recognition and excitement. Feeling their tight grips around my waist and seeing their beautiful smiles evoked a feeling I can only describe as adoring elation.

It is that human connection that keeps bringing me back to medical mission trips, and it has reshaped my perspectives and views of life to

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Presented by the Loma Linda University School of Medicine Alumni Association
In association with the 79th Annual Postgraduate Convention

Special Friday Evening Vespers

California Baptist University Men's Chorus and Orchestra

with Loma Linda University medical students telling their stories

Directed by Dr. Judd Bonner

Homily presented by Saul Barcelo

Loma Linda University Church
Friday, March 4, 2011, 7:00 pm
Community Welcome • An Offering Will Be Received

STUDENT EXCELLENCE

School of Pharmacy student wins essay contest for Amazon mission trip



Vanessa Ardon, first-year pharmacy student, is awarded an all-expenses-paid mission trip to the Amazon.

By Steve Vodhanel

First-year pharmacy student Vanessa Ardon has been chosen as a participant for the Amazon river mission trip with Students for International Mission Service (SIMS) March 18–27, based on an essay describing why service is personally important. Initiated in 2010 and open to all Association of Latin American Students (ALAS), the essay competition offers a chance to serve with SIMS on a mission trip to the Brazilian Amazon region.

According to ALAS president Atilio Palma, Ms. Ardon's essay was chosen for two reasons: it was judged to best answer the question why service is important, and because of her prior dedication to service. "ALAS is pleased and honored to have someone like Vanessa represent the club as her passion for mission service was readily apparent in the essay, but her prior community service is simply outstanding," states Mr. Palma. ALAS will be providing the funds for the trip, which will be in the excess of \$2,100.

Ms. Ardon's essay is based on a biblical life

lesson in Luke 12:48: "For whomsoever much is given, of him will much be required; and to whom much was entrusted, of him more will be asked." To quote Ms. Ardon from the essay, "This wonderful message has been the motivating force behind my desire to use my talents and abilities to serve others."

Ms. Ardon's essay detailed events from a prior community service remodeling project for the

Centro Campesino Farmworker Center building in Florida. It was there that a young girl embraced Vanessa, stating that she was grateful to have such a beautiful place to learn to read, and that she could go home and teach her mom and dad to read as well. This moment of gratitude left Vanessa with the realization that "... service is not only found in the immediate time frame of the work, but it extends out through time and people like ripples of water."

ALUMNI EXCELLENCE

Payscale.com names LLU among tops for starting salaries in the nation

By Dustin R. Jones

For the second straight year, Payscale.com has named Loma Linda University graduates as receiving among the top starting salaries in the nation.

Loma Linda University ranked second in the 2010–2011 report, with a starting median salary of \$69,100. California Institute of Technology (Caltech) ranked first with \$69,900.

The study takes into account only employees that hold a bachelor's degree and does not include any higher degrees.

Individuals who have their bachelor's degree but go on to receive an advanced degree are not included in the study.

In the 2009–2010 salary report, LLU ranked first. This is the third salary report <Payscale.com> has published.

FEATURED SPEAKER

LLU School of Religion hosts renowned biblical scholar from Scotland

By Dustin R. Jones

The Loma Linda University School of Religion hosted Richard Bauckham, PhD, renowned professor emeritus at the University of St. Andrews, Scotland, on February 8 and 9 to present a variety of topics.

On Tuesday, February 8, in the Alumni Hall Amphitheater, Dr. Bauckham presented "The Book of Revelation: Q & A" from 12:00 noon to 1:00 p.m. At 5:30 p.m., also in the Alumni Hall Amphitheater, he discussed "Individualism and Community in the Gospel of John."

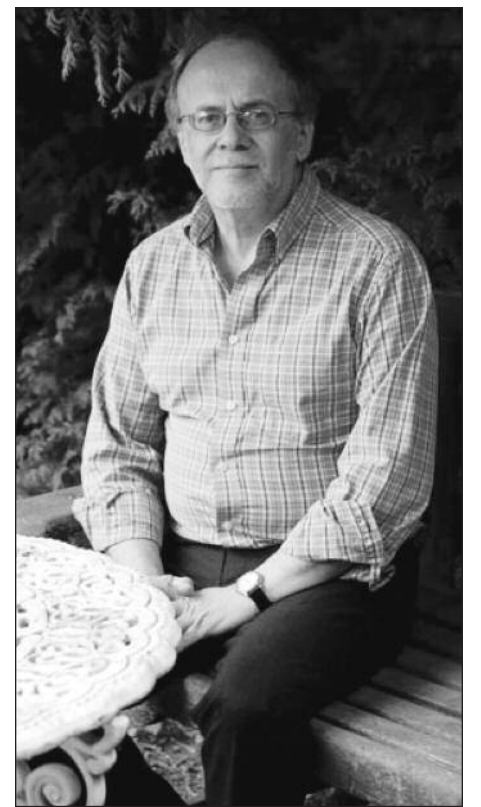
On Wednesday, February 9, in the Alumni Hall Amphitheater, Dr. Bauckham presented "The Bible and Ecology" at 5:30 p.m.

In addition to holding the title of professor emeritus at the University of St. Andrews, Dr. Bauckham is a senior scholar at Ridley Hall, Cambridge University.

He is the recipient of the Michael Ramsey prize for his book, *Jesus and the Eyewitnesses* (2009) and of the Franz–Delitzsch Award for *The Jewish World Around the New Testament* (2010).

Dr. Bauckham is the author of numerous books

on topics ranging from the book of Revelation, monotheism and Christology in the New Testament, and the Bible and ecology. He is also the author of two children's storybooks.



Richard Bauckham, PhD

ART EXHIBIT

Loma Linda University Medical Simulation Center features art exhibit

Contributed report

The Art Institute of California–Inland Empire and the Loma Linda University Medical Simulation Center have partnered to create a collaborative art exhibit with art pieces that incorporate Loma Linda University's mission "to make man whole."

Meg Simmons, program coordinator for the Medical Simulation Center, proposed the idea to give Art Institute–Inland Empire students the opportunity to create and display their Loma Linda-inspired artwork.

"I thought this would be a great way for the Loma Linda University Medical Simulation Center to get involved in the community and give Art Institute students the opportunity to create artwork that directly relates with the mission of Loma Linda and will bring life to the white walls in our center," says Ms. Simmons.

Ms. Simmons worked directly with Rebecca Wolford, an academic advisor at The Art Institute of California–Inland Empire, who served as the artistic director for the Loma Linda Medical Simulation Center art exhibit. Ms. Wolford worked with Jana Rawlings, the academic director of graphic design, and Velvette De Laney, a graphic design instructor at The Art Institute of California–Inland Empire, to develop a class project for graphic design students to create a campus-wide campaign and call for entries for the art exhibit. The campaign encouraged Art Institute students from all majors to submit artwork inspired by Loma Linda. More than 20 art pieces submitted by Art Institute students and faculty were selected for display at the LLU Medical Simulation Center for this juried art exhibit, which opened on Wednesday, February 23. Artwork is also available for purchase.

Meg Simmons and Rebecca Wolford developed this project with the goal of creating a sustainable partnership between the Loma Linda University Medical Simulation Center and The Art Institute of California–Inland Empire. Artwork will be submitted by Art Institute students and faculty bi-quarterly for review by the Loma Linda Medical Simulation Center artwork jury committee.

This project is a creative demonstration of how Loma Linda University incorporates wholeness to the broad spectrum of visitors on the LLU campus, and specifically the thousands of students and visitors that come to the Medical Simulation Center each year.

A special thanks and recognition go to the following students who worked on the partnership campaign and/or submitted artwork: Angelica Bollschweiler, David Butt, Andrew Cruz, Evan Diaz, Ashley Dyce, John Ennis, Brittany Fox, Ricardo Gonzalez, Courtney Green, Matthew Guillen, Jamie Hendon III, Maria Hernandez, Roni Hanki, Stephanie Hernandez, Aspen Lyons, Janai Limtiaco, Jose Martin, Juan Martinez, Adrian Meza, Oscar Orozco, Jonathan Ottinger, Desmond Outlaw, Penelope Peralta, Johnny Rivera, Kandace Selnick, Josiah Serrano, Kimberly Valenzuela, Jose Vazquez, Salvador Vazquez, Erica Velazquez, Samy Ventura, and Jessica Wright.

The Art Institute of California–Inland Empire is part of The Art Institutes, a system of more than 45 education institutions located throughout North America. The Art Institutes system is America's leader in creative education, providing an important source for design, media arts, fashion, and culinary arts professionals. Several institutions included in The Art Institutes system are campuses of South University. For more information, go to <www.artinstitutes.edu>.

Student's love for missions further quickened during Honduras trip ...

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reflect a simpler view focused more on what really matters.

Loma Linda University has been so instrumental in fueling my passion for medical missions. What started as a tugging in my heart grew into a newfound love and sense of purpose through Students for International Mission Service. At every break I could take during my program, I took full advantage of the medical mission opportunities that would come about:

Mexico, Honduras (two times), Haiti.

I have every intention of keeping this passion alive throughout my career as an occupational therapist, and I am so grateful that Loma Linda supported and shaped me along the way for His calling.

The impact of these medical mission trips on my life has been nothing short of life changing, and I would encourage others to test their comfort zones and explore out of the box early on.

PHILANTHROPY FOR SCHOLARSHIP

Pharmacy celebrates four years success with AACP/Walmart Scholars program

By Jim Pinder

School of Pharmacy students and residents have been fortunate to receive the American Association of Colleges of Pharmacy (AACP)/Walmart Scholars Scholarship four years in a row, from a program that is only 6 years old.

AACP has partnered with Walmart to offer \$1,000 scholarships to 65 pairs of students/faculty from schools of pharmacy across the country.

The purpose of the scholarship is to help cover the costs for the student to attend the annual AACP conference with the faculty mentor. LLU School of Pharmacy covers the remaining

student travel costs by donations from alumni, faculty, and staff.

The most recent awardees were fourth-year student Jefmar Dickey and Jerika Lam, PharmD, assistant professor in the department of pharmacotherapy and outcomes science. Mr. Dickey says, "Being a part of the Walmart Scholars program benefited me because I was able to witness the future, expansion, and importance of interprofessionalism in the practice of our pharmacy education."

Mr. Dickey's faculty mentor, Dr. Lam, says, "It's an honor to be a faculty mentor in the program because I can help contribute to the development and promotion of young professionals interested in academia."



Previous LLU School of Pharmacy scholarship recipients include (from left) Tom Hatch, PharmD, scholarship recipient; Katheryn Knecht, PhD, associate professor, pharmaceutical sciences, mentor; Reza Taheri, PharmD, chair, pharmacotherapy and outcomes science, mentor; Jefmar Dickey, scholarship recipient; and Walanika Lum, PharmD, scholarship recipient.

FACULTY RECOGNITION

School of Dentistry recognizes contributions of key faculty

By Doug Hackleman

During the recent Alumni Student Convention banquet on February 10, the LLU School of Dentistry paid tribute to five faculty members who are either retiring or significantly reducing their involvement with the school.

Fred Berry, DDS, MS, professor, department of restorative dentistry, operated a private practice for 23 years before becoming a dental

educator. The span of his contribution to dentistry as a teaching professional now matches his 23 years in private practice. In 2006, Dr. Berry received both the Pierre Fauchard Academy Teacher of the Year and the Loma Linda University School of Dentistry Teacher of the Year awards.

He is a regular continuing education presenter at the annual Alumni Student Convention, and he continually receives excellent reviews for his lectures from both students and alumni.

Dr. Berry has driven nearly 600,000 miles during his daily commutes from Dana Point to Loma Linda University over the past 23 years. "On behalf of the entire School of Dentistry family," Dean Charles Goodacre thanked Dr. Berry for his "exceptional commitment to the School of Dentistry."

Dan Hall, DDS, MS, associate professor, department of restorative dentistry, is particularly appreciated by alumni of the International Dentist Program for his contributions to their professional training.

Dr. Hall has been a faculty member at the school since 1968—a total of 43 years of service. His responsibilities have included section chief for removable prosthodontics, director of the Faculty Dental Office, and director of the Inter-

national Dentist Program. Dr. Hall has been a significant mentor for student research projects, and in 2007 he received the School of Dentistry Distinguished Service Award in appreciation for his contributions to both the dental profession and dental education.

"Dan's genuine caring manner and commitment to enhancing the education of our students," Dr. Goodacre noted, "has been quite extraordinary."

Hilbert Lentz, DDS, MS, assistant professor, department of oral diagnosis, radiology, and pathology, a member of the school's first dental class, has served his alma mater for 31 years.

The School of Dentistry clinics and students have benefited from Dr. Lentz's screening expertise, as he examined and diagnosed thousands of new patients who have entered the school's clinic during his three decades on faculty.

Dean Goodacre thanked Dr. Lentz "for steadfast services to our patients, faculty, and students; long-term contributions to the school; and dedicated support of the school's motto, 'service is our calling.'"

George Lessard, PhD, emeritus professor, dental education services, has been the resident biochemistry basic scientist at the School of Dentistry for the past 24 years.

In addition to teaching biochemistry, his responsibilities have included being director of research planning, coordinator for the basic sciences through several accreditation cycles,

and course director for etiology and management of dental caries.

Dental and dental hygiene students alike have benefited from his knowledge of the basic sciences as applied to dentistry.

In thanking Dr. Lessard "for services to the basic science and research activities of the school," Dean Goodacre enumerated "his contributions to numerous university and school committees, including the admissions committee, that have created a lasting effect on the school and its alumni."

Lane Thomsen, DDS, MS, chair, department of oral diagnosis, radiology, and pathology, is just concluding his second 10-year tenure as chair of oral diagnosis, radiology, and pathology.

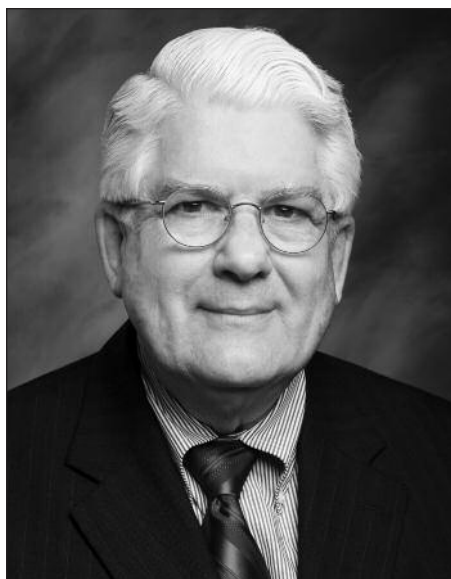
He has consistently received some of the highest course evaluations from dental and dental hygiene students, including comments such as "Dr. Thomsen is very good at his job; he makes this class great," "He is an absolutely wonderful teacher," and "I love Dr. Thomsen's sense of humor."

He received the School of Dentistry Distinguished Service Award in 2005 for his outstanding contributions to its education and service commitments.

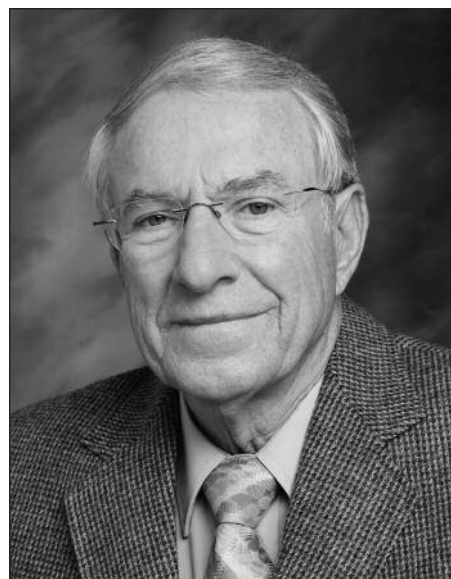
In thanking Dr. Thomsen "for leadership and service to the school," Dean Goodacre added, "He is a national continuing education speaker and a favorite Alumni Student Convention presenter for both hygienists and dentists."



Fred Berry, DDS, MS



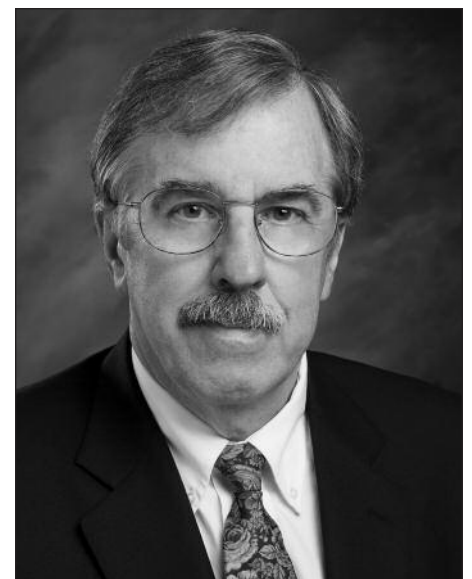
Dan Hall, DDS, MS



Hilbert Lentz, DDS, MS



George Lessard, PhD



Lane Thomsen, DDS, MS

DENTISTRY DEDICATION SERVICE

LLU School of Dentistry students dedicated for service

By Doug Hackleman

As it does late on the Friday afternoon of each year's Alumni Student Convention, the Loma Linda University School of Dentistry held a dedication service for its doctor of dentistry, International Dentist Program, and dental hygiene students on February 11 in the Loma Linda University Church sanctuary.

The prayers of dedication, the very best in gospel music, the heartfelt homily—all characterized a ritual that makes obvious the unabashedly faith-

based and service-oriented nature of oral health care education at the school.

Dignifying the event were academically robed leaders of the university and the school. In welcoming all present, LLU Provost Ronald L. Carter, PhD, expressed the university's pride in the School of Dentistry, and his appreciation for the dedication of its students and the family and friends who encourage and support them.

The nationally celebrated Mt. Rubidoux Adventist Church choir performed "Your Love Divine"

in musical praise, and, in response to the opening prayer by School of Dentistry Dean Charles Goodacre, DDS, MSD, sang "Total Praise."

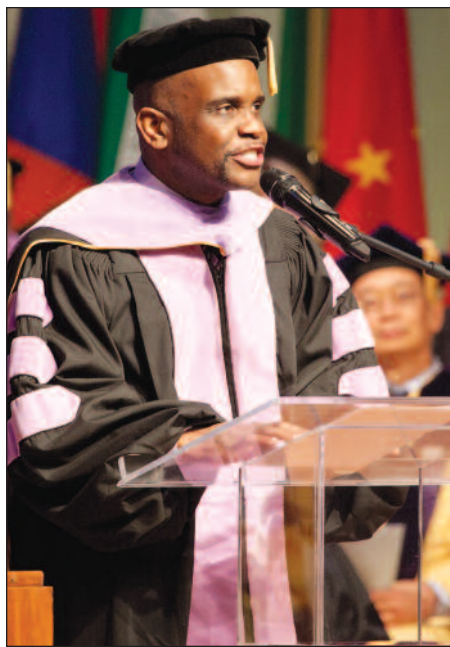
School of Dentistry alumnus Alan Woodson, DDS, director of the Mt. Rubidoux choir, then moved to the podium to deliver the dedication address. Titled "Extreme Makover," Dr. Woodson's homily focused on how the effort by his Upland, California, private practice to help a local homeless man not only restore his oral health but restore his life had proved such a blessing to the dentist and his staff.

Following Dr. Woodson's address, the School of Dentistry and its alumni association presented the first-year dentistry, International Dentist Program, and dental hygiene students

with leather Bibles embossed with the school's insignia and their names while the members of each senior (2011) class were assisted in donning white coats embroidered with the School of Dentistry insignia and their names.

A prayer of dedication by Gregory Mitchell, DDS, director, International Dentist Program, was followed by "Dies Irie," performed by a trio of LLU student siblings: David Roquiz, School of Dentistry third year (cello); Deborah Roquiz, School of Medicine first year (piano); and Andrew Roquiz, School of Medicine senior (violin).

Fred Kasischke, DMin, associate dean, admissions and service learning, offered the benediction.



Alan Woodson, DDS, class of 1987, challenged the students to service.



Dr. Mitchell helps class of 2011 dental hygiene student Heather Dunn don her coat.



Dental student Thomas Szutz, class of 2011, receives the Christ-like Service Award from Fred Kasischke, DMin, associate dean, admissions and service learning.



First-year dental student Charles Toews exits the stage with his Bible.



Steve Green

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SPECIMEN PHILANTHROPY

Freeze-dried reptile specimens donated to earth and biological sciences



Ron Rogers, a college classmate of Leonard Brand, PhD, generously donated a collection of freeze-dried reptile specimens to the Loma Linda University School of Science and Technology's department of earth and biological sciences. The specimens will be on display in the new Center for Biodiversity and Conservation Studies, located adjacent to Griggs and Mortensen Halls.

CONSERVATION RESEARCH GRANT

LLU researcher is part of three-country grant to protect endangered sea turtles

By Larry Kidder

It's not a major grant—at least in terms of dollars. Stephen G. Dunbar, PhD, professor of earth and biological sciences in the Loma Linda University School of Science and Technology, is the first to admit it.

"This is a tiny grant when you look at some of the major grants being received at Loma Linda," Dr. Dunbar agrees. "But it is huge in the conservation of endangered sea turtles in the Gulf of Fonseca."

Grant monies totalling \$116,000, provided by the National Fish and Wildlife Foundation through The Ocean Foundation, will allow scientists in the countries of Honduras, El Salvador, and Nicaragua to collaborate in studying and protecting the Pacific hawksbill turtle *Eretmochelys imbricata*.

Dr. Dunbar has been working for a number of years in Honduras to study and protect the Pacific hawksbill population.

"At one point, scientists actually believed that the Pacific hawksbills had become extinct," Dr. Dunbar explains. "Then a small population was discovered in the Gulf of Fonseca."

As part of his efforts, Dr. Dunbar formed the Protective Turtle Ecology Center for Training, Outreach, and Research—or ProTECTOR program—a non-profit, non-governmental organization, in 2007. Objectives of this program include study and conservation of all sea turtle species in Honduras, as well as education of local communities to protect—and not eat—turtles and their eggs.

Satellite tagging of olive ridley turtles *Lepidochelys olivacea*, members of another Pacific species he is studying, led to contact between Dr. Dunbar and researchers in the neighboring countries.

"The turtles don't worry about international

borders," Dr. Dunbar laughs. "They forage and nest all along coast of the Gulf of Fonseca."

With tri-national efforts, the turtles will be more easily tracked and studied by all of the collaborating scientists, accelerating the process of achieving protection of the turtles and their habitats.

The original grant request was for \$48,000 for one year. Dr. Dunbar and his collaborating colleagues were asked to increase their grant request to \$116,000 over two years.

In year one, their plan is to interview members of the communities along the coast of the Gulf of Fonseca, looking for foraging grounds and nesting beaches, and establishing focal points for further tagging and research.

"We especially want to establish communication with the local fishermen," Dr. Dunbar continues. "Our impetus is to learn as much as we can about a species where virtually nothing is known."

The primary diet of the Pacific hawksbill turtle consists of sponges. "There are virtually no coral reefs in the gulf," Dr. Dunbar points out. "Where are they finding sponges to forage?"

Dr. Dunbar believes he knows the answer but wants to verify his findings through further study. "We believe the turtles swim in among the mangrove roots, where sponges are known to grow."

In year two, efforts will continue to tag and track the turtles. However, Dr. Dunbar also plans to focus more on interviewing and educating the local residents. This will include going on fishing expeditions with local fisherman, observing fishing techniques, and looking at ways fisheries interact with the turtles.

Sea turtles can become entangled in the nets and ultimately drown. There may be steps the

PHILANTHROPY FOR RESEARCH

Anonymous donations help EBS department update research equipment

By Larry Kidder

The generosity of an anonymous donor is helping the department of earth and biological sciences, Loma Linda University School of Science and Technology, make some long-overdue updates to its research equipment.

"Our equipment budget has been minimal for years," says Leonard Brand, PhD, department chair of earth and biological sciences. "This gift is helping us catch up in a major way."

A recent gift of \$150,000 and an earlier gift of \$200,000 are helping the department take major strides in its updating efforts—the latter gift being used largely for equipment, but also

funding some non-equipment endeavors.

Two student petrographic microscopes, with polarized lighting ideal for identifying minerals, are already being used by faculty and students in the geology program.

In addition, a 24-inch rock saw is available for cutting rock samples into ideal sizes for study.

More geology equipment is on the way. A sample grinder, which uniformly grinds powder samples to be analyzed in an x-ray diffractometer, is expected to arrive soon. A new micro sampler drill will allow geology faculty and students to acquire minute rock samples at the

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Kieron Prince (right), an undergraduate student in the geology program, uses one of two new petrographic microscopes, guided by Kevin Nick, PhD, associate professor of earth and biological sciences, one of the geology faculty.



Stephen G. Dunbar, PhD, holds a juvenile Pacific hawksbill specimen, representing the species he and others are trying to save from extinction in Central America's Gulf of Fonseca. A tri-national grant will help them with their efforts.

fisherman can take that will reduce or eliminate turtle fatalities in their nets.

In addition, turtle meat and eggs are a source of income and nutrition for some of the local residents. Dr. Dunbar hopes to engage the local communities in helping to protect the turtles, rather than eating them and harvesting their eggs. In order to accomplish his objectives, he needs to help them find alternative sources of food and income.

"Ecotourism and microbusinesses are some

ways that community residents can make a living that don't involve destroying the turtle population," Dr. Dunbar notes. "We will have no success with the locals if we don't suggest alternatives."

As part of the big picture, Dr. Dunbar hopes to help establish a network of turtle research centers throughout the three countries, utilizing the resources of the ProTECTOR program to make this possible. "There's something special about helping to save a species from extinction," Dr. Dunbar smiles. "That's my real motivation."

ALUMNI RECOGNITION

Carlton Lofgren receives 2011 School of Dentistry Distinguished Service Award

By Doug Hackleman

Carlton Lofgren, DDS, is this year's recipient of the Loma Linda University School of Dentistry Alumni Association Distinguished Service Award. The honor was presented to him by Dean Charles Goodacre, DDS, MSD, Thursday evening, February 10, during the Alumni Student Convention banquet held at the San Bernardino Hilton.

A charter member of the Dean's Circle, Dr. Lofgren's "unique background, willing spirit, and extraordinary contributions to the University made him the perfect candidate for this award," Dean Goodacre said.

While a senior in the School of Dentistry's class of 1961, Dr. Lofgren was honored to receive both the Restorative Dentistry Award for his clinical skills and the President's Award for his leadership abilities.

Dr. Lofgren practiced privately for 10 years

following graduation, simultaneously serving on the School of Dentistry faculty. He was active in teaching gold foil technique and a member of the Gold Foil Club.

A committed churchman, Dr. Lofgren was for years an elder for the Arlington Seventh-day Adventist Church before transferring his membership to the Loma Linda University Church, where he currently serves on several church committees, including the fundraising committee for the LLU Church chapel.

In 1971, Dr. Lofgren joined his family's egg business as operations vice president, subsequently moving up to executive vice president, before being named president in 1991. He served on the board of directors of the American Egg Board for 12 years, and was appointed president of that entity for the period 1999 to 2001, when he received the Producer of the Year National Award.

Dr. Lofgren contributes to his community as

well, serving on the board of the Mission Savings Bank from 1988 to 2004.

In 1991, he was invited to join the Loma Linda University Councilors, where he served as president from 1999 to 2000. He was appointed to the Loma Linda University Board of Trustees in 2001 and has been invited to remain with that body through 2012.

Dr. Lofgren and his wife, Raye, shouldered the demanding role as Centennial Complex steering committee co-chairs in the effort to fund the Centennial Complex, which opened in 2009. This magnificent, 151,000-square-foot structure was made possible by more than \$50 million in donations, raised through the campaign managed by Carlton and Raye Lofgren, and Carleton and Patti (Shryock) Wallace.

Taking into account all of the foregoing, Dr. Lofgren considers his most important accomplishment to be his three children and nine grandchildren.

His children have presented him with the very prestigious Best-Daddy-in-the-Whole-World award, and Father-of-the-Year honors. These are the distinctions he most cherishes.



Carlton Lofgren, DDS, is the 2011 recipient of the LLU School of Dentistry Alumni Association's Distinguished Service Award. Dr. Lofgren was honored during the Alumni Student Convention banquet, held on Thursday evening, February 10, at the San Bernardino Hilton.

ALUMNI RECOGNITION

LLUSM alumna honored by national journal for her efforts to fight starvation

By James Ponder

A 2004 graduate of the Loma Linda University School of Medicine was recently honored by a national magazine for her work on behalf of hungry and medically underserved people in the Third World and impoverished regions of the United States.

The story of Marlo Hodnett, MD, a Harvest, Alabama, internist who volunteers with the National Association for the Prevention of Starvation (NAPS), was spotlighted in the March 2011 edition of *Ladies' Home Journal*.

The *Journal* noted that Dr. Hodnett has "helped feed children, build schools, and provide much-needed care to families in Guyana, Madagascar, Malawi, and other countries."

Although she has a demanding private practice, Dr. Hodnett still finds time on Fridays, Saturdays, and Sundays to provide free care for migrant workers and other needy individuals in rural Alabama and Mississippi.

"They live under worse conditions than any I've seen in the Third World," Dr. Hodnett reports. "They have very limited access to health care. Many of these communities don't even have a clinic. I've heard stories of people having to travel two hours just to get basic medical care. One woman told me her mother was dead 45 minutes before the ambulance could arrive to help her. Listening to these people and hearing their cry is very heart-wrenching."

Dr. Hodnett first became involved with

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There must be something contagious about a good laugh! Marlo Hodnett, MD, and one of her patients, an exuberant little boy from Malawi, enjoy a moment of lighthearted camaraderie during one of her volunteer mission trips for the National Association for the Prevention of Starvation. Dr. Hodnett has traveled to more than 10 countries of the world with the group, providing medical care for indigent patients and encouraging them to put their faith in Christ.

EMPLOYEE RECOGNITION

Parking, traffic, and fleet services department recognized for excellence



Loma Linda University Shared Services recognized the department of parking, traffic, and fleet services for excellence. The department enjoyed a special meal with LLUSS president Kevin Lang, MBA (far left), and LLUSS vice president Mark Hubbard, MBA (far right), on February 9.

Anonymous donations help EBS department update research equipment ...

Continued from page 7

same time they are studying those samples under a microscope.

Biology research equipment is also on its way. Already here is a special use high-definition camcorder that can drastically slow down action so that movements like rattlesnake strikes can be studied in great detail.

On their way are a dissecting microscope with camera equipment, a blood analyzer for toxicity studies, a radiotelemetry receiver and transmitters, lyophilizer to freeze-dry proteins, a gel electrophoresis unit, a digital physiograph, a digital file backup system, cabinetry and exhibits for the Center for Biodiversity and Conservation Studies, and a burrow probe video system.

"We are so grateful for the generosity of this individual," Dr. Brand continues. "Our faculty and students will benefit greatly in their research efforts."



Leonard Brand, PhD, chair of the earth and biological sciences department, School of Science and Technology, places a rock sample into the newly purchased 24-inch rock saw.

PHILANTHROPY

How Mark Keltner made sure his legacy outlasts his memory

By James Ponder

The story of how Mark Keltner, MD, overcame heartbreaking tragedy, put himself through medical school, developed a highly successful career in family medicine, and ultimately bequeathed one of the largest individual contributions Loma Linda University has ever received is an epic recital of triumph in the face of daunting adversity.

According to Albin Grohar, PhD, executive director of philanthropy at LLU, Dr. Keltner gave the LLU School of Medicine (LLUSM) a total of \$11.9 million to benefit the department of family medicine. He began his philanthropy through a \$1.5 million gift during his lifetime and bequeathed an additional \$10.4 million.

"Dr. Keltner wanted to ensure that future generations of student physicians continue to receive the same quality of medical education he enjoyed as a student of family medicine here in the late 1940s and early 50s," Dr. Grohar observes.

Born in Seattle, Washington, on August 9, 1913, little Mark experienced tragedy at the age of 3 when his father returned from the Yukon Territory with advanced tuberculosis and died. The boy went to live with an Adventist family—Charles and Margaret Rudolph of Bellevue, Washington—while his sister moved to California to live with their grandmother.

Although his new family raised Mark in what he described as "a loving and nurturing environment," and treated him "like one of their own," life on the Rudolph farm required hard work, consistency, and discipline.

"The Rudolph home was a great place for kids to grow up," Dr. Keltner recalled at the time he

was given the University Distinguished Humanitarian Award during the LLU School of Medicine graduation ceremonies in 2001. The family provided "plenty of food, other children with whom to play, and abundant wildlife from which to learn."

The Rudolphs also encouraged young Mark to consider medicine for a career. Toward that end, he enrolled in Auburn Academy when he was 13 or 14 and threw himself into the challenge. Not only did he study hard, the disciplined young scholar also financed his secondary education and living expenses by working with saws, planers, and shapers in the school's woodshop.

After graduating from the academy "with all fingers intact," Mark enrolled in Walla Walla College—known today as Walla Walla University—to take pre-medicine classes. Fate, however, had other plans.

With inadequate finances to meet expenses, the future Dr. Keltner abandoned Washington State at the end of his first year of college and hitchhiked to Los Angeles, where he landed a job as an orderly at the megalithic Los Angeles County General Hospital.

To say he was determined, dedicated, and ambitious is like saying the L.A. Dodgers are the best ballplayers to routinely play in Chavez Ravine. By pinching pennies and applying all the drive and initiative he could muster, Mark attended night school and graduated as both a laboratory technician and an x-ray technician.

After two years of military service, the motivated Mr. Keltner enrolled in pre-medicine classes at La Sierra College, many years before it attained accreditation as a university.

This time, fate was smiling: not only was he able to complete the pre-medical program at La Sierra, but he was later admitted—by Chester Fink, registrar—into the freshman medical class at the College of Medical Evangelists—the institution known since 1961 as Loma Linda University.

His photo in the LLU School of Medicine yearbook depicts a youthful, yet serious-looking Mark Keltner as a proud member of the class of 1950. With a shock of dark hair and open, even gaze, he looked every bit the talented youthful professional that he was.

After graduation that same year, Dr. Keltner moved to Los Angeles for an internship at White Memorial Hospital. He found postwar Los Angeles to be a very friendly place for a graduate committed to the highest ideals of his profession.

In the City of Angels, Dr. Keltner also found William D. Engeberg, MD—a member of the Class of 1949. Dr. Keltner would later call Dr. Engeberg "the best doctor in town," and the two men would go on to form a general practice partnership spanning their entire medical careers. With offices in Los Angeles and Beverly Hills, the partnership was a thriving medical enterprise for years. During his time in Los Angeles, Dr. Keltner also fell in love with Helen Titus Florsheim, whom he later married. The couple had no children.

According to the California Medical Association (CMA), Dr. Keltner was a member of that organization for 30 years. An article in a 1971 edition of the *Western Journal of Medicine* places him among 91 Los Angeles County physicians appointed to the CMA House of Delegates that year.

When Dr. Keltner passed away on Tuesday, May 12, 2009, at the ripe old age of 95, he and Helen—who preceded him in death in 2002—had made arrangements to endow the Mark R. Keltner, MD, Professorial Chair in Family



The man who contributed \$11.9 million to the Loma Linda University School of Medicine overcame tremendous personal adversity to make a difference with his life. Mark Keltner, MD, lost his father to tuberculosis at the age of 3. With the love and support of the Adventist family who adopted him, Mark put himself through academy and college before enrolling in the Class of 1950 at the College of Medical Evangelists, as the School of Medicine was known in those days. After graduation, he established a successful family practice in Los Angeles and Beverly Hills. Although Dr. Keltner passed away on May 12, 2009, his legacy lives on in the Mark R. Keltner, MD, Professorial Chair in Family Medicine.

Medicine with an initial gift of \$1.5 million.

Dr. Grohar remembers that, like Dr. Keltner himself, the memorial service was brief, humble, and understated. "The thought of having to say goodbye to this sophisticated man, distin-

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LLUSM alumna honored by national journal for her efforts to fight starvation ...

Continued from page 8

NAPS—a relief organization that provides humanitarian aid and educational support to mitigate hunger, poverty, and disease—during her undergraduate days at Oakwood University.

"As a student, I traveled with NAPS to the Dominican Republic, Guyana, Haiti, southern Sudan, and Zambia," she shares. "I went to Haiti with them four times in those days. As a physician, I've been to Botswana, Guyana, Haiti again—this time after the earthquake—Madagascar, Malawi, Suriname, Zambia, and Zimbabwe."

As a faith-based ministry, NAPS offers hope as well as health care. "It's powerful to work with so many dedicated physicians, dentists, and nurses," Dr. Hodnett insists. "When we go on a mission trip, we help the people immediately; we don't know what will happen to them after we leave. But if we share the love of Christ with them, remind them that there's a better life to come, we know they're going to be eternally OK."

One of the most effective tools the NAPS team uses is a large white van equipped as a mobile medical clinic. Writing on the outside of the van informs passersby that the vehicle is a free clinic, that its goal is improving community health, and that love heals. Dr. Hodnett says the group acquired the van in an unusual way.

"We prayed for a medical mobile unit," she shares, "and the young people"—most, but not all, NAPS volunteers are Oakwood University students—"went door-to-door raising money. God blessed us and we got one! Now that we've got it, we can travel further into the black belt of Mississippi and Alabama. The people are so glad to see us!"

Although Dr. Hodnett draws inspiration from many sources, she says the person most responsible for her desire to reach out in altruistic service to others is her mother, Deborah Jackson, MPH.

"Mom lives in Colorado," Dr. Hodnett notes, "where she works as a health administrator. In 2003, we went to Zambia, Africa, together. It was awesome! We were like two peas in a pod. We worked very well together. She worked mostly in the leprosarium. We also did child evangelism." Ms. Jackson, a registered nurse, received her MPH degree from the LLU School of Public Health in 2009.

"The way she raised us was to always stick up for the underdog," she continues. "She was the Dorcas leader at church. She was always making Thanksgiving boxes or Christmas boxes to distribute to needy families. At Christmas, she would have us pick out the toys that we would want for ourselves, and then

those would go to the underprivileged kids she was caring for. She was always feeding the homeless and helping others."

Dr. Hodnett explains that many NAPS student volunteers choose to devote a year of dedicated service in mission work.

"Most of that year, they're in the States," she notes, "but they also spend six weeks overseas." In this country, the students attend to the health care needs of poor people in the rural south.

Dr. Hodnett points out that not all student volunteers elect to donate a year of their lives to mission service, but those who do feel called to this ministry and have their parents' permission to participate.

"It's very hard," she says in the opening of a NAPS video segment filmed on location in several countries where NAPS volunteers are making a difference, "because I'm the only physician, and a lot of these people need help and they travel days to get here."

At that point, the sensitive young physician fights back the tears as an image of an elderly woman, transported by a makeshift stretcher carried by four young men, flashes on the screen.

"I can't save them all by myself," she continues.

"We need more physicians to come out here to help so I don't have to keep turning people away."

The camera segues through a kaleidoscope of images of Dr. Hodnett helping patients in Madagascar, Jamaica, Sudan, Haiti, Alabama, and Mississippi. In one frame, she talks with a woman about thyroid disorder. In another, she counsels a man about his diet. In a third sequence, she prays with a young mother from the Mississippi Delta.

"Lord," Dr. Hodnett implores, "she's only 24 years old, she has three children that need her, and so Lord, even though she's been diagnosed with breast cancer ..."

As the words fade away, Dr. Hodnett and one of the student volunteers hug the woman, their smiles as warm and reassuring as the sun.

The video fades to its conclusion where a typical day in the life of Dr. Hodnett begins: surrounded by people who need the special blend of love, encouragement, and medical care she shares so openly with all.

Individuals who would like to assist Dr. Hodnett and her NAPS colleagues, either by donating money or volunteering their time, are invited to explore the organization's informative website at <www.napsoc.org>.

COMMUNITY CONNECTIONS

Biblical archaeology museum in São Paulo, Brazil, named in honor of retired professor and pastor

By James Ponder

Paul Bork, PhD—a retired professor of archaeology and theology who served the Loma Linda University Church as a staff pastor from 1961–1966 and taught religion and German at Loma Linda Academy during the same time—was recently honored by having the first biblical archaeology museum in Brazil named after him.

In designating the Paolo Bork Biblical Archaeology Museum, officials of the Universidad Adventista de São Paulo (UNASP) not only took note of Dr. Bork's many contributions to the field of biblical archaeology, but also of his South American origins.

He was born in Brazil after his parents emigrated from Germany at the conclusion of World War I. Paulo is the Portuguese equivalent of Paul.

Along with his wife, Norma Koester Bork, PhD; son Terry Bork, JD, a judge of the superior court in Los Angeles; daughter-in-law Jane Bork, MD, an associate professor of pediatrics at Loma Linda University Children's Hospital; and grandchildren Maxwell and Katherine, Dr. Bork traveled to Brazil in December 2010 to attend grand opening ceremonies for the museum.

Son Paul Kevin, a 31-year employee of Loma Linda University who works in the dispatch department, and daughter-in-law Susan, an assistant to the pastor at the Mission Road Seventh-day Adventist Church, had conflicting plans and were unable to attend.

During the December 19, 2010, dedication service, grandson Maxwell Bork gave a short speech during which he presented a box of frankincense and myrrh crystals to the museum. The substances are mentioned in the biblical narrative as gifts brought to the baby Jesus and

King Solomon by the wise men from the east and the Queen of Sheba, respectively.

"Professor Rodrigo Silva, an archaeologist at UNASP, was quite impressed with Maxwell's gift and speech," Dr. Bork recalls. "He said, 'As I follow Professor Bork in Brazil, I am sure his grandson, Maxwell, will follow him into God's service in the United States.'" Dr. Bork notes that UNASP is currently planning to erect a new structure for the school of theology and museum, which it claims is the only biblical archaeology museum in Brazil.

The scope of Dr. Bork's influence in the fields of archaeology and theology is extensive and considerable.

"I taught hundreds of students in biblical archaeology classes at Pacific Union College," he says. "I took many, many students, church members, and pastors to the sites of archaeological digs in which I was involved in the Middle East. Archaeology became a lifetime fascination for many of these individuals. Many still call or e-mail to talk with me about what they saw. Many others tell me, 'I've always wanted to do that.'"

Following his retirement from teaching at Pacific Union College in 1989, Dr. Bork began the process of donating hundreds of Middle Eastern artifacts, books, and slides from his personal collection to the Brazilian university. That process continued during his trip last December when he took six additional large donations with him.

Dr. Bork estimates that, over the course of his career, he's been to the Middle East at least 15 times conducting excavations or digs, as he calls them. His principal research was in Israel and Egypt, but he and his wife also traveled extensively in Ethiopia, Iran, Iraq, Jordan, Lebanon, Syria, Turkey, and Yemen.

These days, when not traveling, Dr. Bork

continues his research and writing on the life-ways and customs of biblical lands and peoples.

During one of his trips to Yemen, the Queen of Sheba—known as Bilkis in the Koran—became a person of particular interest. In Yemen and Ethiopia, the Borks encountered her name and image in multiple locations including places of business named for her such as "The Queen of Sheba Bakery."

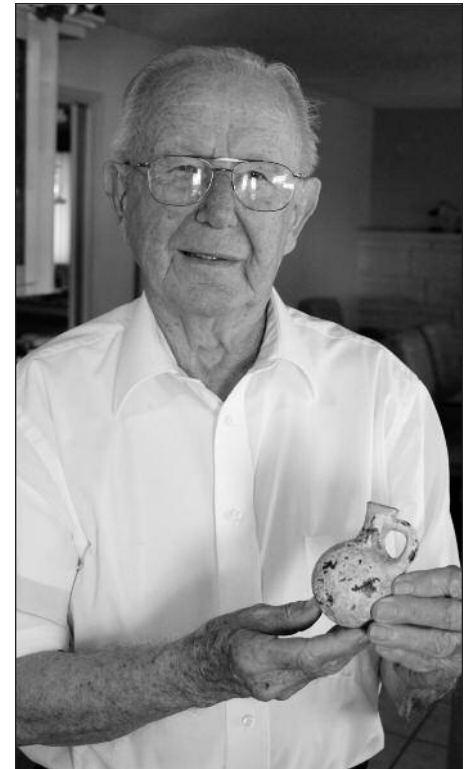
Ethiopians believe that the queen's visit to King Solomon resulted in the birth of a child whom they claim as their ancestor. The trip from her hometown of Marib, now a ruin in Yemen, to Jerusalem was an arduous journey by camelback across the desert.

According to the biblical record, she presented Solomon many gifts including frankincense and myrrh, which were used in making perfumes, medicines, and burial aromatics.

Dr. Bork says they were more valuable than gold at the time and that the queen controlled a monopoly on the products, since trees from which they are harvested are endemic to her territory.

Among the most interesting items the Borks donated on their recent trip to Brazil is a 16-inch handled jar that was found at the bottom of the Mediterranean Sea in the waters between Cyprus and Turkey. They also took three large paintings to donate to the museum.

Two pictures feature images of palace guards from Susa in Iraq, known as Shushan in ancient



Retired professor and pastor Paul Bork, PhD, holds a small urn he collected on one of his many archaeological excursions to Israel, Egypt, and other countries of the Middle East. In addition to teaching archaeology at Pacific Union College, Dr. Bork served as a staff pastor at Loma Linda University Church in the 1960s and taught religion and German at Loma Linda Academy during the same decade. He was honored in December 2010 when the first biblical archaeology museum in Brazil was named after him.

times. The third depicts a lion from a section of the wall in Babylon. Part of the wall is currently housed in a museum in Germany.

Please turn to page 11



Paul Bork, PhD, on the site of an archaeological dig in Israel in the 1970s. Dr. Bork, who is standing in the upper center of the photograph wearing long pants and a white shirt, estimates he made at least 15 trips to the Middle East to study the cultures of the region during his career. The Paolo Bork Biblical Archaeology Museum at the Universidad Adventista de São Paulo was recently dedicated in his honor in São Paulo, Brazil. Paulo is Portuguese for Paul.

How Mark Keltner made sure his legacy outlasts his memory ...

Continued from page 9

guished even in his nineties, was not something I wanted to linger on," Dr. Grohar shared.

According to John K. Testerman, MD, PhD, chair of family medicine at LLUSM, in addition to establishing the Keltner chair in family medicine, proceeds from the estate are also being used to develop a demonstration clinic into a practice and teaching model to implement Loma Linda University's mission, "to make man whole," in concrete and innovative ways.

"We were determined to set a new standard of excellence in patient service and quality of care," Dr. Testerman notes. "We chose to adopt the patient-centered medical home (PCMH) as our practice and teaching model." He says the PCMH concept "is a model for primary care which seeks to strengthen the physician-patient relationship by replacing reactive, episodic care with proactive, coordinated care and continuous healing relationships that are not limited to face-to-face physician office visits. It is receiving increasing national attention due to its potential for improving clinical outcomes while reducing costs."

Dr. Grohar summarizes Loma Linda University's reaction to Dr. and Mrs. Keltner's benevolence, noting that "the gifts mark the university's philanthropic history in the first decade of the 21st century in a special way. They renewed the department of family medicine and the university through their generosity."



Dr. Mark and Helen Titus Florsheim Keltner enjoy a moment together at a gala occasion in Los Angeles. Although the Keltners are deceased, they gave Loma Linda University gifts totaling \$11.9 million to advance the education of future physicians at the School of Medicine and subsequently benefit future patients as well.

Biblical archaeology museum in Brazil named in honor ...

Continued from page 10

"Looking at that wall, you realize that King Nebuchadnezzar probably saw the same thing you are looking at," Dr. Bork observes. "The paintings on the wall probably pre-date the prophet Daniel. They demonstrate Nebuchadnezzar's love for art; he paid enormous sums of money to decorate his kingdom."

Both Drs. Bork are published authors. In addition to writing countless scholarly articles, Paul wrote two books, *Out of the City*, *Across the Sands: Retracing Abraham's Steps from Ur to Canaan*, and *The World of Moses*. Norma penned *Ten Miles from the Nearest Sin*, a fictional expose of sexual abuse in the context of a fundamentalist Christian denomination.

Needless to say, her book has proven to be the most controversial of the three Bork tomes, as it brings to light a painful topic that some wish would just go away. It has garnered praise, however, from victims of abuse.

For his part, Paul isn't much for resting on his laurels or discussing past accomplishments. He'd much rather talk archaeology and its role in shedding light on continuing events in the Middle East. "Did I tell you about the carving of King Ashurbanipal of Assyria that we took to the museum?" he asks. "The depiction shows him on a horse in the midst of battle. It's a very dramatic image. I have thousands of slides and pictures of Ashurbanipal, who was a feared enemy of all his neighboring countries, including Israel. Sounds a bit like today, doesn't it?"

HISTORICAL MOMENTS

LLU president lays cornerstone paver for Centennial Pathway



Left photo above: Moments before laying the ceremonial first paving stone for the new Centennial Pathway, Richard H. Hart, MD, DrPH, president of Loma Linda University (LLU), gathers with a handful of supporters and friends. When completed, the pathway will link the campus administration and library buildings with the new Centennial Complex. From left: Jo Anna Codington, administrative support for capital campaigns; Rachelle Bussell, CFRE, newly appointed vice president for advancement; Albin Grohar, PhD, executive director of philanthropy for LLU; Jackie Gilstrap, major gifts officer for special projects; Dr. Hart; Elvia Phan, gifts records specialist; Maria Valverde, assistant to Dr. Grohar; David Colwell, CFRE, executive director of philanthropy for Loma Linda University Adventist Health Sciences Center; Kemi Adeoye, a student in the MPH program at the LLU School of Public Health; and Tami Adeoye, her adorable daughter. Right photo above: Dr. Hart lays the ceremonial first paving stone at the south end of the new Centennial Pathway. The first stone—inscribed "The John A. Burden Family"—is dedicated to the memory of the pioneering Loma Linda pastor for whom Burden Hall derives its name. Pastor Burden, who was instrumental in establishing the medical missionary work of the Seventh-day Adventist Church, purchased the properties for the institutions known today as Glendale Adventist Medical Center and Loma Linda University Medical Center in the early 1900s.



NATIONAL RECOGNITION

American Lung Association honors CTT program at LLU Children's Hospital

By James Ponder

The comprehensive tobacco treatment (CTT) program of Loma Linda University Children's Hospital recently received a commemorative plaque from the American Lung Association for its efforts in promoting the Fight for Air Walk, which was held on October 2, 2010, in Fontana.

In the photo to the right, Charity Vasquez, MS, program coordinator for the CTT grant at the hospital, holds the plaque while (from left) Terry M. Roberts, MHSA, area director for the American Lung Association in California; Bianca Prandini, MS, data coordinator; and Maribel Munoz, perinatal health specialist, look on.

"The Fight for Air Walk was family friendly because there were activities for children and adults," Ms. Vasquez notes. "We walked 2.5 miles and raised \$400. We also took fliers and pens to promote the CTT program." The CTT is funded by First 5 San Bernardino through a grant.

"First 5 San Bernardino's efforts in partnering with agencies throughout San Bernardino County to provide services to young children and their families are greatly appreciated," she adds. "The programs they fund have benefitted many organizations that help children and families."

"We were delighted to join the American Lung Association in the fight for healthy



lungs and healthy air, to help save lives today, and keep America healthy tomorrow," Ms. Vasquez observes.

For more information on the CTT program, contact Ms. Vasquez by phone at (909) 558-3264 or online at <ctvasquez@llu.edu>.

FACULTY EXCELLENCE

LLUSP assistant professor Dave Weldon, PhD, awarded GRASP funds

By Steve Vodhanel

Through the office of the president and the office of research affairs, Loma Linda University has awarded five \$50,000 Grants for Research and School Partnerships (GRASP) to 10 faculty members. The new GRASP program is designed to encourage faculty across the university schools to engage in collaborative research, to publish their work, and to seek extramural funding.

Dave Weldon, PhD, from the LLU School of Pharmacy, collaborating with Kimberly Payne, PhD, from the LLU School of Medicine, will receive GRASP funding for the research project "Natural Product Therapy to Inhibit B Cell Precursor Proliferation." Using a naturally-occurring compound in a common household plant, Drs. Weldon and Payne have proposed a project that could have a substantially positive effect on the future treatment of pre-B cell acute lymphoblastic leukemia (pre-B ALL), which

contributes to approximately 80 percent of all childhood leukemia cases diagnosed annually.

According to Anthony J. Zuccarelli, PhD, associate vice president of research affairs, competition from the university community far exceeded expectations and showed a robust and vibrant interest in discovery and research among LLU faculty. The 23 applications received were reviewed under criteria similar to those used by the National Institutes of Health and other research sponsors. Meeting criteria such as innovation, impact, principal investigator capabilities, quality of the collaboration, and adequacy of the financial plan were essential for consideration. The entire LLU School of Pharmacy congratulates Dr. Weldon.



Dave Weldon, PhD

CHILDREN'S HOSPITAL

Guild brings the love to LLU Children's Hospital for Valentine's Day

By James Ponder

Yogi Berra may not have shown up at the Valentine's party the Big Hearts for Little Hearts Loma Linda Guild threw for patients of Loma Linda University Children's Hospital this February 14, but one of his timeless witticisms put in an appearance just the same.

"You can observe a lot," the baseball superstar and homespun philosopher famously remarked, "by just watching."

For watchers at the party, there was plenty to observe. While members of the guild ran back and forth assisting patients with the serious tasks of cutting, pasting, and coloring, the kids themselves seemed completely absorbed in the process of making personalized greeting cards to communicate the ardency of their passion to their loved ones.

For those willing to glance back and forth between the lines of this story and the photos that accompany it, the pictures do a very adequate job of telling the tale of what it's like at one of the guild events.

In the first image, William Steig's classic children's tale, *Amos & Boris*, sits to the side as a plethora of hearts, stickers, and Valentine's cards convey the message that this romantic holiday is, after all, all about love. Well, that and having fun....

In the next image, a grinning youngster colors a big pink heart bright blue. Apparently the color is not symbolic; the boy's huge smile belies any possibility that he might suffer from the lovesick blues. Instead, he beams from ear to ear as his patient mother, sitting next to him, displays the calm benevolence of a lady who just allowed her son to affix little red hearts and other stickers all over her face.

Up next is a picture of a mother and daughter focused in rapt attention on a task at hand. The mother is doing something—it's hard to tell from the picture whether she's pasting or coloring—that the daughter considers worthy of close inspection.

The fourth photograph depicts a smiling Eloise Habekost with a stuffed animal in each arm. Although the kids may not know it, Ms.

Habekost is a true champion for children. Back in the 1990s, Nancy Varner, Dixie Watkins, and Ms. Habekost began to visit other Southland children's hospitals to learn about the role and value of guilds. With the information gained, they founded the Big Hearts for Little Hearts Guild in 1999. Since then the organization has donated countless thousands of hours and more than \$1.3 million to benefit the patients of LLU Children's Hospital.

That's a lot of money; more importantly, it represents a lot of love from Ms. Habekost and her colleagues. Most recently, she stepped in to serve as guild president after her predecessor had to step down to attend to other responsibilities.

The final picture reveals the identities and destinations of the two stuffed animals Ms. Habekost was carrying in the last image: the toy dogs have become personal pets of two bright-eyed patients who proudly display their new canine companions.

Although it's hard to draw a direct correlation between the hours the guild volunteers donate to their favorite charity and the actual enjoyment the children derive from these activities, a couple things became crystal clear as the guild volunteers cleaned up after this year's party.

Not surprisingly, both can be termed in appropriate Yogiisms.

"It ain't over 'til it's over" aptly describes the hours of loving service the guild volunteers put into raising money for events like the Valentine's Day party, planning every detail, pulling things off with seamless aplomb, making sure the kids have every opportunity to enjoy themselves, and finally cleaning up after it's over.

The second observation fits the situation equally well. Yogi may not have been speaking of guild volunteers when he said it, but for the ladies and gentlemen who plan and carry out these events year after year, "It's déjà vu all over again."



LIVE LONG AND PROSPER

Drayson Center senior wellness program member celebrates 100 years



Herb Wiles (right) arrives at his 100th birthday party on the arm of his grandson and is welcomed by Don Sease, MBA (left), executive director of Drayson Center, and Dick Wysong, MBA (center), Drayson Center facilities manager. Several hundred friends were on hand to help him celebrate. A long-time literature evangelist in the Seventh-day Adventist publishing business, Herb has been a regular member of the LLU Drayson Center senior wellness program. Incidentally, he enjoys complimentary senior membership, since he is well over the age when Drayson Center grants a free membership—80 years and older. Herb recently passed his driver's test and is licensed for another five years.



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