



Forum in Focus

FALL 2012

President's Letter

As I write this first letter of my Presidency for the Forum, I am filled with excitement and anticipation for the wonderful year ahead. I am honored to be leading such a dynamic and accomplished group of women who devote countless hours of their time towards one of San Antonio's most important institutions, Texas Biomedical Research Institute. I personally have become very passionate about our purpose – to establish and strengthen community relationships, offer volunteer services and fundraise for Texas Biomed – and want to thank all of you sharing that passion. For the last 42 years we have been making an invaluable impact and this year will be no different.



Julie Zacher

The month of May marked the completion of our 2011-2012 year, and we ended with a Bang! I HOPE you were able to attend our annual Gala in May, which was certainly the party of the year! A party like that doesn't happen without months of planning and coordinating. Many thanks to Gala Chair, **Cathryn LeVrier**, Gala Co-Chair, **Raven Labatt**, and Gala Assistant, **Courtney Duphorne** for bringing us **Diwali: The Festival of Lights**. It was an extraordinary party and raised prized seed monies for Texas Biomed scientists and their pilot studies. More information about the Gala awaits you in this newsletter.

Speaking of the Gala, this year's Chair, **Melissa Morgan**, Co-Chair **Courtney Duphorne**, and Assistant, **Daniela Serna**, are already hard at work choosing committees and planning for what's sure to be another fabulous event.

The purpose of the Texas Biomedical Forum is to support the Texas Biomedical Research Institute through community relations, volunteer service and fundraising.

While technically The Forum "breaks" for summer, it seems most of our trustees have been hard at work on various jobs and committees.

Shannon Turner and **Carla Nelson** spent the latter part of their summer coordinating the contents of this wonderful newsletter, and will do so again in the winter and spring to keep you all up to date on Forum happenings.

Wendy Garcia, our Membership Chairman for the second year in a row, is in the final phase of our annual membership drive. If you haven't renewed, it's not too late and can be done online at www.txbiomed.org/forum.

And speaking of membership, **Sara McCamish** and **Lisa Westmoreland** have also logged some precious summer hours to finalize the 2012-2013 directory, which will be hitting your mailboxes this month.

It's shaping up to be a busy fall! We hope you were able to stop by **Julian Gold** on September 12th for our first event of the season. Many thanks to **Raven Labatt** and **Tracee Feik** for coordinating this event with our loyal friends at Julian Gold. Proceeds from the event will benefit the Forum and, for that, we are most grateful.

Also this fall, **Victoria Roca** and **Gretchen Hermann** are putting together a stimulating evening of round-table discussions with various scientists from Texas Biomed. This event, to be held on October 18th at the Argyle from 5:30-7:30 will give you, our membership, an opportunity to visit one on one with some of Texas Biomed's scientists and to learn more about some of their current projects, while enjoying cocktails and appetizers. This was a new event for for the Forum last year and was very well received.

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President's Letter

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We hope you will save the date and join us that evening.

Moving into November, we have another exciting opportunity for you with our Fall Lecture Luncheon on November 7th. First Vice President and Luncheon Chair, **Cathryn LeVrier**, and Luncheon Assistant, **Leslie Miller**, have coordinated what promises to be another informative and enjoyable lunch at the Argyle.

Also in the fall, **Dr. Ann Cross** and **Sonya Medina Williams** will kick off our series of student tours at Texas Biomed. After incredible success chairing this committee last year, this dynamic duo decided to stay on as chairs for another year. **Monica Iacobucci** will be joining their team to ensure the continued popularity and success they achieved with a record amount of San Antonio high schools touring Texas Biomed last year.

Another way we support science education is through our Science Education Awards, whereby we provide grants for programs designed by high school science teachers. **Ashley Hixon** and **Jody Lutz** will be reaching out to these teachers and coordinating this awards pro-

gram. **Amanda Bezner** will assist both the student tours and education awards as a liaison to the schools.

As a true working board, I am most grateful to everyone who gives of their time and talents to keep us efficient and organized. **Kathleen LeFlore** will record the minutes of our meetings as recording secretary. **Chaney Stuart** will orchestrate all correspondence as corresponding secretary. **Courtney Percy** will keep the Forum's books as treasurer and **Sheila Mayfield** will serve as the Gala treasurer. Our Parliamentarian, **Ann Walton** will keep our meetings orderly, and **Lisa Miller** will coordinate volunteers for our numerous events and committees. Please contact Lisa if you would like to get involved in any way!

Behind the scenes, **Sarah Moore** will be documenting our events and activities as our photographer, while **Tracy Williams** will record our memories for the year as Historian in the Big Book. **Anne Seay** will keep us front and center in the local media as our public relations chair. **Melinda Hart** will keep us organized electronically as database coordinator, **Julie Miggins** will keep us physically organized as Archivist and **Elizabeth Carrington** will keep us up to date online as the website liaison.

Suzanne Dabbous precedes me in my presidency as a remarkable role

model and mentor. Her passion and dedication are an inspiration to me, and I am honored to be following in her footsteps. She will remain on the board this year as Chairman of the Nominating Committee.

Lastly but certainly not least, I want to thank my advisors, **Terry Gouger**, **Jean Mitchell** and **Allison Zeller** who have all graciously agreed to guide me through the upcoming year, and have already been of great help!

Finally, I would like to thank YOU for your confidence in me as your President. I look forward to the many opportunities the year holds in store for us and feel certain we have the best group of women to do the job well. I encourage you to get involved and take advantage of the opportunities of your membership. Come to a lecture luncheon or a roundtable discussion. Volunteer to lead a student tour. I have found the more I participate and learn about the projects and research at Texas Biomed, the more passionate I become for the cause and I believe, with group effort and your continued support, we are making a lasting difference.

Sincerely,



Julie Zacher
President 2012-2013
Texas Biomedical Forum

Save The Dates

The annual Roundtable Discussion will be held at the Argyle on Thursday, October 18, 2012, from 5:45-8:00 p.m. Guests will be treated to an evening with cocktails, hors d'oeuvres and desserts while engaging in thought provoking conversations with scientists from the Texas Biomedical Research Institute.

Luncheon Date Info

The Fall Lecture Luncheon will be held at the Argyle on Wednesday, November 14, at 11:00 a.m.



Are you ready to . . . Rumba???

We are excited to share this year's theme for the Texas Biomedical Forum's Annual Gala (drum roll please)... **La Gloria Havana!**

Save the date for an evening in old Havana, as we celebrate the rich culture of this tropical city and support the life changing and groundbreaking research of the Texas Biomedical Research Institute. The Gala will be held on **Saturday, May 4, 2013** at The Argyle. Melissa Morgan and Courtney Duphorne, Gala Co-Chairs, and Daniela Serna, Gala Assistant, are hard at work planning what promises to be a special evening of delightful entertainment and delicious cuisine!

Our committee's kick-off meeting will be held on *Wednesday, September 19, 2012* at 9:30 a.m. at The Argyle. As you know, the Gala could not succeed each year without the help of many volunteers, so if you would like to be a part of the committee, please contact Melissa Morgan at melissa@m-interiors.net or 210-859-7512.

And remember . . . *Planning on attending the Gala?* Tables usually sell out long before the Gala, so reserve yours early! Forum members will receive table information in the fall, so act quickly.

Not able to attend the Gala? Consider making a Forum Grant donation, which directly supports the Gala's efforts to help the Texas Biomedical Research Institute.

Know of a corporation that is interested in attending or making a donation? Let us know, so we can mail them a sponsorship package promptly.

Don't forget your dancing shoes and let Cuba come to you! Stay tuned for more new and exciting details for this year's Gala in the months to come. We look forward to celebrating *a la Cubana* with you for an evening that you won't want to miss . . . at **La Gloria Havana!**

VOLUNTEER OPPORTUNITIES

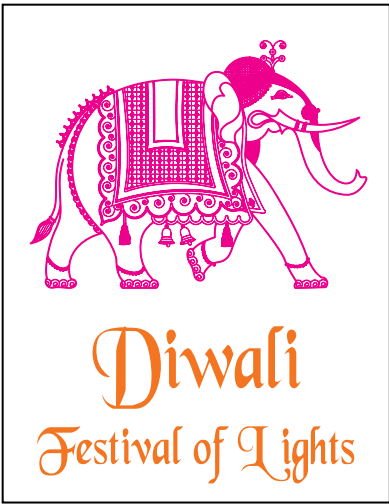
Are you looking for a way to get more involved with Texas Biomedical Forum? Consider volunteering your time this year to the many opportunities the Forum has to offer: greet guests at the Fall and Spring Lecture Luncheons, attend a Student Tour of Texas Biomedical Research Institute, offer assistance with a Forum special event, or share your talents with the Annual Gala. You can access the Forum's website at www.txbiomed.org/forum to find dates that will fit your schedule. Thank you for supporting Texas Biomed with your time and commitment.

Please contact Lisa Miller with questions regarding volunteer opportunities: 410-9545 or lisa227@sbcglobal.net.

FALL STUDENT TOURS AT FULL CAPACITY

Student tours are off to a tremendous start. We are pleased to announce the addition of Monica Iacobucci to our team. Having served on the foundation for many years, her expertise will be a wonderful addition. Our focus this year will be to integrate the student tours and science award recipients to create a broader educational spectrum and database.

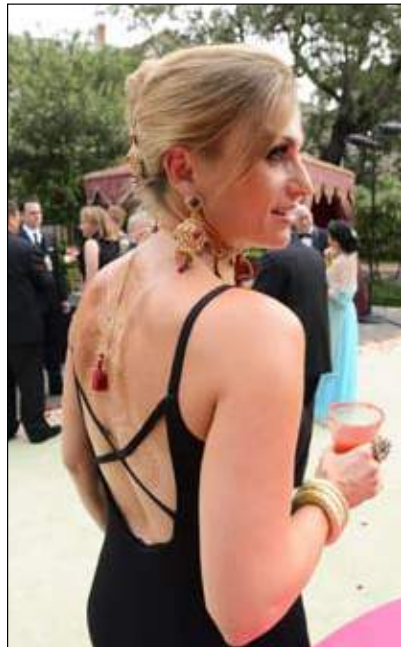
Currently, the student tours are at full capacity for the fall dates. There is a waiting list compiled, and we have added additional dates in the spring to accommodate more students. The tour dates for the fall are September 11th, 18th, 25th and October 2nd. Each tour last approximately 2 hours and occurs on Tuesday mornings from 9:30-11:30am. We have changed the curriculum of the tour to include a tour the Biosafety Level Four Suit Room. Please join us! If you would like to volunteer for a tour, please contact Monica Iacobucci at miacobucci@att.net.



Diwali: A Festival of Lights was the theme of The Forum's annual Gala this year, held on May 5 at The Argyle. For 42 years, the Texas Biomedical Forum has supported the mission of the Texas Biomedical Research Institute through fundraising and community awareness, with the annual Gala being the primary fund-raiser for the Forum. Using the money raised by the annual Gala, Texas Biomed researchers

have qualified for more than \$25 million of additional funding in the last ten years alone. That's a \$25 to \$1 return on our investment. Each year numerous volunteers work tirelessly, giving their time and talent to produce this fabulous event and this year was no exception, raising \$100,000 for Texas Biomed.

Gala Chair, Cathryn Le Vrier, Co-Chair, Raven Labatt and Gala Assistant, Courtney Duphorne chose to celebrate the rich and dynamic holiday of Diwali for this year's Gala. An incredibly talented volunteer committee



worked for over nine months to create the beauty, glamour and huge success of Diwali.

Beginning in the early Fall of 2011, tablesales chairs Sonya Medina Williams and Amanda Bezner began the fundraising process. Together, in a tense economic environment,

they were able to sell all available tables, well in advance of the Gala's big night. Additionally, Forum Grants chairs Gretchen Herrmann and



Left to Right are: **Kenneth Trevett, President & CEO, Texas Biomed, Cathryn LeVrier, Gala Chair and Raven Labatt, Gala Co-Chair.**

Lynnette Embrey were incredibly successful in generating direct donations. Many thanks to our very generous donors and sponsors for making our fundraising efforts such a success!

The fun of Diwali began when the unique and colorful invitation, designed by Tracy Williams and Heather Fulton, arrived in the mail. Talented decorations chairs Melissa Morgan and Elizabeth Hale worked for months to create the style and ambience of the evening, transforming The Argyle into a fabulous Indian setting.

As guests arrived at the Argyle the evening of the Gala, they were greeted with amazing blood-orange cocktails rimmed with hot pink sugar crystals and ushered into the elaborate tent . . . but not first without stopping for some henna body art to embellish the beauty of the night.

As dinner was served, guests were greeted by the beauty of table decorations that included

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Festival of Lights

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beautiful saris and centerpieces of peacock feathers, nuts, indian fruits and the like.

Lisa Spielhagen and Catherine Matthews did an amazing job working closely

with Argyle Chef, John Barrios, and Argyle Manager, John Marotta, to create a menu that beautifully oriented guests' palletes with the flavors and tastes of India.



Each guest had a special gift at their seat compliments of long-time friend to The Forum, Julian Gold. Thanks to Jennifer McLiney for coordinating with Julian Gold on their generous gift to the gala attendees.

After dinner, the tent came alive

and the fun began when the sounds of DJ Lucy Wreuble exploded into the night. Many thanks to Entertainment Chairs Michele Stevens and Mary Beth Mosbacker for creating the fun and vibrant atmosphere that kept guests festive well into the night.

And a late night it was! After Party chairs Amelita Mauze and Emilie Petty made sure of that by enticing a wonderful group of attendees to join in the fun through the Gala After Party!

One of the highlights of the evening, as always, was the spectacular raffle. Our phenomenal raffle committee, led by co-chairs Mary Potts, Melissa Marino, Leanne Kelly and Erika Silva, put together some amazing packages with terrific sales results . . . something that is always a key part of our fundraising efforts.



The evening went beautifully, thanks to the very important, behind the scenes logistics committee, led by Amy White and Lisa Miller, who coordinated to ensure the planner had everything they needed to transform The Argyle.

Leslie Miller was incredibly instrumental and successful in ensuring that San Antonio was aware of the event and the import role it plays in funding at Texas Biomed. In addition, many thanks to Courtney Percy, Gala Treasurer, who had the tedious task of tracking all of the donations and expenses.



A special thanks, also to Julie Zacher, Josie Flesher and Christy Meador, as well as Immediate Past



President, Suzanne Dubbous, for their guidance and support throughout the entire planning process. We are most appreciative to everyone who came and supported our cause. It was a fabulous evening thanks to the effort of so many involved. Not only was fun had by all, but it has allowed The Forum to further the very important research of Texas Biomed.

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Erika and Zeke Silva

Outgoing President's Letter

It is difficult to believe the 2011-12 Forum year is already over! With its closure, we have truly inaugurated our new name, Texas Biomedical Forum. It was a great year for everyone, including the many volunteers and board members who gave so generously of themselves to make it a success. Clearly, the Gala Chairs, Cathryn LeVrier and Raven Labatt along with Gala Assistant, Courtney Duphorne, deserve an extra special round of applause for the wonderful Spring Gala – Dewali.

It was an honor to receive the Past President's pin from my good friend and advisor, Laura Moorman. I would like to thank all of the Past Presidents who have helped shape the Forum into the success



it is today. I am proud to be counted among them. I am indebted to my advisors, board members, both present and past, who helped make my year so seamless. I am also thankful to Ken Trevett and Corbett Christie who, along with Rebecca Rabel and Ideawire, made this year of transition a lot easier.

I will continue to support the Texas Biomedical Forum with Julie Zacher as incoming President and her energetic board of trustees. I know it is going to be a great year!

Thank you,

A handwritten signature in cursive script that reads "Suzanne".

Suzanne Dabbous, MD

TEXAS BIOMED CAMPUS NEWS High School Teachers Visit



On June 28, Texas Biomed hosted a day on the campus for 18 San Antonio area high school science teachers. The day was full of activities, including a webcam DNA extraction laboratory demonstration as training for a classroom teaching program.

Jerilyn Pecotte, Ph.D. organized the day's events, which also included a wel-

come from Texas Biomed President Kenneth P. Trevett; tours of the Southwest National Primate Research Center animal colonies and of the AT&T Genomics Computing Center, and laboratory tours and presentations by Joanne Curran, Ph.D., Anthony Griffiths, Ph.D., Hareesh Nair, Ph.D., Matthew Johnson, Ph.D., Kimberly Spradling, Ph.D., Heath Nevill and Bob Baker, D.V.M.

Texas Biomed Updates

NEW ANIMAL MODEL MAY LEAD TO TREATMENTS FOR A COMMON LIVER DISEASE AFFECTING MILLIONS OF AMERICANS

Scientists at Texas Biomed have developed the laboratory opossum as a new animal model to study the most common liver disease in the nation – afflicting up to 15 million Americans – and for which there is no cure.

The condition, nonalcoholic steatohepatitis (NASH), resembles alcoholic liver disease, but occurs in people who drink little or no alcohol. The major feature of NASH is accumulation of fat in the liver, along with

An additional 15 to 30 percent of Americans have excess fat in their livers, but no inflammation or liver damage, a condition called “fatty liver” or the non-progressive form of nonalcoholic fatty liver disease (NAFLD).

“It now seems likely that genetic factors . . . determine why [some] develop NASH and its complications of cirrhosis and liver cancer,” – *Geoffrey C. Farrell, M.D.*

inflammation and functional damage.

Most people with NASH feel well and are not aware that they have a liver problem. Nevertheless, NASH can progress to cirrhosis, in which the liver is permanently damaged and no longer able to work properly. NASH-related cirrhosis is the fourth most common indication for liver transplantation in the U.S.

NASH affects 2 to 5 percent of Americans – roughly six million to 15 million people.

The study, published in the July issue of the *American Journal of Physiology-Gastrointestinal and Liver Physiology*, was supported by the National Institutes of Health and the Robert J. Kleberg, Jr., and Helen C. Kleberg Foundation.

“This is the type of model in which to develop mechanism-based therapies,” writes Geoffrey C. Farrell, M.D., of the Australian National University Medical School in Canberra, in a journal editorial.

Both NASH and NAFLD are becoming more common, possibly because of the greater number of Americans with



obesity and its important health complications, type 2 diabetes, high blood cholesterol levels, high blood pressure and other risk factors for heart attack and stroke. In the past 10 years, the prevalence of obesity has doubled in adults and tripled in children. It was previously reported by other scientists that the prevalence of NAFLD and NASH in a cohort of middle-aged patients in San Antonio is 46 percent and 12 percent, respectively.

“It now seems likely that genetic factors, such as those important for diabetes and high cholesterol levels, are what determines why a small proportion of those with fatty liver develop NASH and its complications of cirrhosis and liver cancer,” said Farrell.

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Biomed Updates

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In the new study, high responding opossums developed elevated cholesterol and fatty liver disease when fed a high cholesterol and high fat diet, whereas low responding opossums did not. High responders carry a mutated ABCB4 gene, which affects their ability to secrete excess cholesterol from the liver into bile which, in turn, transports the cholesterol to the intestines for excretion from the body. As a consequence, opossums with the mutated gene accumulate cholesterol in the liver and ultimately in the blood.

“We showed that the fatty livers of high responders contain a tremendous amount of



cholesterol,” said first author Jeannie Chan, Ph.D., of Texas Biomed.

“The opossum is a new animal model for investigating the mechanism by which cholesterol mediates liver injury, which will lead to a better understanding of the role of dietary cholesterol in the development of NASH.”

Co-authors on the study included Rampratap S. Kushwaha, Ph.D., Jane F. VandeBerg, and John L. VandeBerg, Ph.D., all of Texas Biomed; and Francis E. Sharkey, M.D., of the UT Health Science Center San Antonio.

New Earl Slick Building

The Texas Biomedical Research Institute plans to build a 70,000-square-foot building that will serve as a new front door to the 200-acre campus and allow for the enhancement of existing research programs and the creation of new ones, said Kenneth Trevett, the organization’s president and CEO.

The \$26.45 million building will provide eight laboratories for the institute’s federally designated Southwest National Primate Research Center (SNPRC), which is where work concerning tuberculosis, heart disease, diabetes and AIDS is done. The expansion also will allow the institute to grow its research into stem cell use, Trevett added. There also will be space for an additional six virology and immunology laboratories and one biomedical safety laboratory.

“We’ve got real room to grow here,” Trevett said.

The construction of the 2-story facility, which will be named after Earl Slick, the brother of the institute’s founder, is part of the first phase of a 25-year master plan that has been in the works for about a decade, Trevett said. Phase one also includes \$15 million for recruitment start-up packages for 10 new researchers.

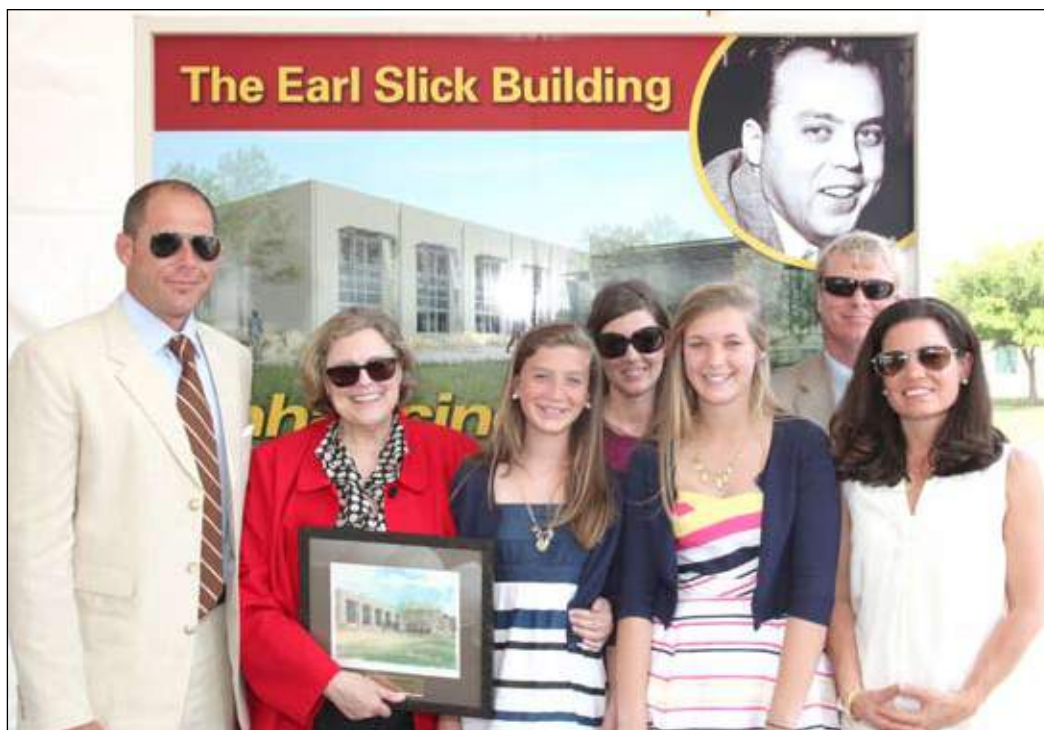
The second phase is expected to start in the next five years and will include the construction of an animal procedure holding area and renovations to about 530,000 square feet of existing buildings. Other future projects include infrastructure enhancements, more green space on the campus and a new entrance, according to the institute’s 2011 annual report.

Building permits still need to be secured from the city, but construction is expected to start in June with completion by late 2013, Trevett said.

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Biomed Updates

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Groundbreaking for new Earl Slick Building

Phyllis Slick Cowell, daughter of Earl Slick, and family at the groundbreaking on May 24.

From left, John Cowell, Phyllis Slick Cowell, Maile Cowell, Lynn Ives, Jane Ives, Allen Ives and Michelle Cowell.

The 70,000 square foot laboratory complex will be the largest in the history of Texas Biomed and provide space for new faculty members, laboratories and offices for the Dept. of Genetics and Immunology and Immunology and the Southwest National Primate Research Center.

San Antonio-based Lake Flato Architects and Houston-based FKP Architects are the designers and the builder is Houston-based Vaughn Construction. The institute is seeking a Leadership in Energy and Environmental Design designation for the new facility. To achieve that goal, the building will have a modern design that will allow natural light to diffuse into office and lab areas. The building is expected to operate 20 percent more efficiently than current building codes require, Greg Papay of Lake|Flato said in the institute's annual report.

For its master plan, the institute has raised \$30 million from 53 donors. The institute plans to raise another \$11 million by 2014, officials said in a news release. Nearly a dozen

donors gave \$1 million or more to the institute during the campaign.

"The Texas Biomedical Research Institute is an incredible organization that is critical for San Antonio, for research and for attracting the best and the brightest. What they do is significant for our town," said Jackie Moczygema, manager for the Ewing Halsell Foundation, which donated funds for an infectious disease researcher.

"We're pleased to invest in their intellectual and human capital. It's necessary to further the research effort aimed at helping humanity."

(Adapted from the San Antonio Express-News.)

Biomed Updates

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New effort promises to produce new vaccines, jobs for San Antonio

Four of the city's large research institutions announced in May that they have formed a partnership to develop new vaccines. All four already have vaccine research under way. The new partnership, called the San Antonio Vaccine Development Center, could have almost \$1 million in new funds to spur scientists in new directions, said Kenneth Trevett, president of the Texas Biomedical Research Institute.

"In this city, we are not a collection of medieval fiefdoms, but a network of organizations seeking common ground against illness," Trevett said at a news conference at City Hall.

The partnership has been in the works for about a year, Trevett said. In addition to Texas Biomed, members include the University of Texas Health Science Center, University of Texas at San Antonio and the Southwest Research Institute.

The group has raised \$600,000 in private donations – including a corporate gift from USAA and a personal donation from NuStar Energy LP Chairman Bill Greehey. With that, they've applied another \$300,000 from the Texas Research Incentive Program, a state fund that provides a 50 percent match for private gifts of up to \$1 million to emerging research universities such as UTSA. Trevett said additional grant funds will follow. Initially, four \$50,000 grants will be awarded to researchers from among the four partners, with priority given to collaborations between two or more of the institutions.

"The center leverages and builds on core scientific resources, expertise and talent at the four institutions in San Antonio," said Bernard Arulanandam, associate dean for research at UTSA, whose own work includes development of an experimental chlamydia vaccine in collaboration with scientists at the health science center.

Other research at the four institutions includes vaccines against Tularemia and Lassa virus, both potential bioterror threats, under development at Texas Biomed; and vaccine delivery systems at Southwest Research.

The group will also host an annual symposium on vaccine research each year. The first one is scheduled for November.

Ann Stevens, president of BioMed SA, said infectious disease research "is one of five areas we have identified where San Antonio has recognized strengths of national or international caliber. So clearly this is an area where San Antonio can leverage its expertise, both for regional



San Antonio City Manager Cheryl Sculley and Texas Biomed CEO Kenneth P. Trevett

economic benefit, and also to protect human health around the world."

City Manager Cheryl Sculley said the partnership could lead to new jobs. "This partnership concentrates a lot of this city's brainpower on common initiatives, which drives more innovation and creativity," Sculley said. "This innovation in turn can create health solutions and products that can be commercialized, and result in the formation of new bioscience companies as well as more jobs in San Antonio."

(Adapted from the San Antonio Express-News.)

Forum on San Antonio healthcare and bioscience growth

Texas Biomed President and CEO Kenneth P. Trevett participated in a special conversation on Aug. 7 on the collaborative growth of San Antonio's healthcare and bioscience sector, sponsored by *Texas CEO Magazine*.

The breakfast panel, part of the magazine's statewide Enlightened Speaker Series, also



Kenneth P. Trevett

featured BioMed SA Founding Chair Henry Cisneros, Medtronic General Manager/SA Operations Jeff Ruiz, and InCube Labs founder & CEO Mir Imran.

Their discussion on "Community Supported Business Partnerships" will be chronicled in an upcoming edition of the magazine.

New Grants to fight deadly viruses

Texas Biomed scientists have recently been awarded \$3.6 million from the Department of Defense and National Institutes of Health to characterize and test vaccines against several filoviruses, some of the world's most deadly viruses. Ebola and Marburg are highly lethal hemorrhagic fever viruses with fatality rates up to 90 percent and are potential bioweapons. Because of these threats, there is a pressing need for effective vaccines and treatments for these viruses.

In one project, Anthony Griffiths, Ph.D., with other laboratories in the Department of Virology, is characterizing filoviruses to be used in vaccine and antiviral studies, as

well as developing and refining tests to determine the effectiveness of filovirus vaccines and therapies.

In addition, Ricardo Carrion, Ph.D., and Jean Patterson, Ph.D., are working with the Lovelace Respiratory Research Institute in New Mexico to test in monkeys the efficacy of candidate filovirus vaccines, using Texas Biomed's biosafety level 4 laboratory. They will also perform immunological tests during the research to gain a better understanding of the immune responses elicited by different vaccine candidates under differing schedules or conditions.



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