Daily Pilot

WEDNESDAY, JANUARY 4, 2023 /// dailypilot.com



Photos by James Carbone

HUNDREDS OF PEOPLE, some wearing costumes, run into the chilly Pacific Ocean on Sunday for the annual Surf City Splash event, which

Wind and cold don't put a chill on Surf City Splash

undreds of people took the Surf City Splash in Huntington Beach on New Year's Day.

Event organizers said nearly 300 people made the dip into the ocean at noon, many dressed in creative costumes. Gale force winds and chilly conditions could not stop them.

The Surf City Splash returned after a two-vear hiatus. This year. it also served as a fundraiser for Surfrider Foundation, which launched its new North Orange County chapter on Sunday.

Participants enjoyed breakfast burritos and a ceremony before making the plunge.

THE

"JELLYFISH"

fun as they dip

their feet into the chilly Pacific

Ocean Sunday

as part of Surf

City Splash.

ladies and others wearing costumes have





JACK CAREY. 89, of Huntington Beach, the oldest "splasher," and Lee Love Ghione, one of the founders of Surf City Splash, dip their feet into the chilly Pacific Ocean during the annual event.

Caltech looks to tap solar power in space

Philanthropist and Irvine Co. chair Donald Bren backs project to test transmitting solar to Earth as electricity.

BY SARA CARDINE

Hitching a ride on a SpaceX Falcon 9, a small prototype created by Caltech scientists and engineers embarked from Florida's Cape Canaveral Tuesday morning on an ambitious mission to demonstrate the feasibility of harvesting solar power in

Weighing in at just 50 kilograms — about 110 pounds the Space Solar Power Demonstrator is set to launch a series of experiments that could one day lead to the deployment of spacecraft that collect solar energy and beam it back to Earth in the form of electricity.

Tuesday's launch date was a long time coming for the roughly 35-member Caltech crew of principal investigators, graduate and postdoctoral students and researchers who have worked tirelessly in the past two years creating and testing the SSPD's component parts.

But it was also a memorable moment for Orange County phi-

See Solar, page A3

Rainfall, high surf expected for coastal regions

BY LILLY NGUYEN

It looks like gray skies and rain will continue for a few more days in coastal Orange County, but the sun is expected to shine again starting Friday.

The county will see scattered showers Wednesday, though rainfall isn't expected to reach more than a quarter of an inch. Thursday will be the day to look out for, as meteorologists at the National Weather Service station in San Diego are forecasting a "real drencher" with widespread rain expected to last throughout the day.

Over New Year's weekend, beginning Friday and ending Sunday, the total average rainfall in the drier parts of the region was about 1 inch, officials reported, while the wetter areas received an average of 2 inches. Similar

See Rainfall, page A4

Couple's daughter is the first 2023 birth at F.V. medical center

BY MATT SZABO

Huntington Beach residents Joy An and Peter Hseih thought their first daughter was going to be a New Year's baby.

Acacia had a due date of New Year's Day, but was born nearly two weeks early in December 2020. The Hseih family made the most of their second chance, so to speak, on New Year's Day 2023.

Abigail Manna Hseih arrived at 12:36 a.m. on Sunday at MemorialCare Orange Coast Medical Center in Fountain Valley, the first baby of 2023 in that hospital and the first in three MemorialCare

Medical Group hospitals systemwide.

Joy reported that both she and Abigail were doing fine on Tuesday. Abigail weighed 6 pounds, 0 ounces at birth.

"It's so funny," she said. "For my first one, for Acacia, it was like, 'Oh my gosh, she's a Jan. 1 baby.' I was so excited. I prayed to God, 'Please let her come out on Jan. 1,' but she came out two weeks

Like her sister, Abigail arrived early; the due date was Jan. 13. Joy said her delivery was smooth and

See Birth, page A2



ABIGAIL MANNA HSEIH is held by her mother, Joy An, and father, Peter Hsieh, Huntington Beach residents.

Courtesy of MemorialCare Orange Coast

Medical Center

ounces when she

was born early on

New Year's Day.

WWW.DAILYPILOT.COM

weighed 6

pounds, 0

Pedestrian killed Friday in Huntington Beach ID'd

BY CITY NEWS SERVICE

Huntington Beach police on Saturday released the name of the 49-year-old pedestrian killed Friday night when he was struck by a pickup truck.

John Diaz was a Huntington Beach resident, Sgt. Anthony Pham told City News Service.

The crash was reported about 6:50 p.m. Friday on Slater Avenue west of Keelson Lane, Pham said.

The preliminary investigation revealed Diaz was walking outside a crosswalk when he was struck by the eastbound Chevrolet Silverado, Pham said. Diaz was pronounced dead at the scene.

22-year-old man The driving the truck remained at the scene and cooperated with officers, he said. Impairment did not appear to be a factor for the driver.

Anyone who may have witnessed the collision or the events leading up to it was encouraged to call (714) 536-5666.

dailypilot@latimes.com Twitter: @TheDailyPilot

BIRTH

Continued from page A1

she knows she won't forget her younger daughter's birthday.

"You know, Jan. 1, you cannot forget about it," she said with a laugh.

Peter Hseih noted that the family would have received a larger child tax credit if Abigail was born the day before. "We were contemplat-

ing, but we were like, you know what?," he said. "We'll see what God decides and see what Abigail wants. If she wanted to come out in 2022, that's good, but if she comes out in 2023 then that's fine

In recognition of their first baby of 2023, Abigail's parents received a "first baby basket" — stuffed with onesies, booties, newborn clothing, receiving blankets, diapers and gifts for mom and dad — from the care team at Orange



Courtesy of MemorialCare

is the first facility in the

MemorialCare system to

offer an Obstetrical Emer-

gency Department and

midwifes, and they were involved in the delivery.

Across town, officials at

Fountain Valley Regional

Hospital reported they had

a baby born just 50 seconds after midnight on

Fountain Valley Regional

spokeswoman Jennifer Bayer said Tuesday that

the new arrival was a heal-

thy baby girl, but no other

details were immediately

Daily Pilot reporter Sara

New Year's Day.

available.

Orange Coast Medical Center

MARKETPLA

To place an ad, go to http://timescommunityadvertising.com/

T.S. No. 106196-CA APN: 934-05-015 NOTICE OF TRUSTEE'S SALE IMPORTANT NOTICE TO PROPERTY OWNER: YOU ARE IN DEFAULT UNDER A DEED OF TRUST, DATED 4/14/2021, UNLESS YOU TAKE ACTION TO PROTECT YOUR PROPERTY, IT MAY BE SOLD AT A PUBLIC SALE. IF YOU NEED AN EXPLANATION OF THE NATURE OF THE PROCEEDING AGAINST YOU, YOU SHOULD CONTACT A LAWYER On 2/9/2023 at 9:00 AM, CLEAR RECON CORP, as duly appointed trustee under and pursuant to Deed of Trust recorded of Orange County, State of CALIFORNIA executed by: FEDERAL SAVINGS AND LOAN ASSOCIATION, SAVINGS ASSOCIATION, OR SAVINGS BANK

4/19/2021 as Instrument No. 2021000262711 of Official Records in the office of the County Recorder WILLIAM WILSON CRIGLER, A SINGLE MAN WILL SELL AT PUBLIC AUCTION TO HIGHEST BIDDER FOR CASH, CASHIER'S CHECK DRAWN ON A STATE OR NATIONAL BANK, A CHECK DRAWN BY A STATE OR FEDERAL CREDIT UNION, OR A CHECK DRAWN BY A STATE OR SPECIFIED IN SECTION 5102 OF THE FINANCIAL CODE AND AUTHORIZED TO DO BUSINESS IN THIS STATE; ON THE FRONT STEPS TO THE ENTRANCE OF THE ORANGE CIVIC CENTER, 300 E. CHAPMAN, ORANGE, CA 92866 all right, title and interest conveyed to and now held by it under said Deed of Trust in the property situated in said County and State described as: MORE FULLY DESCRIBED ON SAID DEED OF TRUST The street address and other common designation, if any, of the real property described above is purported to be: 618 LAKEVIEW LANE #15, COSTA MESA, CA 92626 The undersigned Trustee disclaims any liability for any incorrectness of the street address and other common designation, if any, shown herein. Said sale will be held, but without covenant or warranty, express or implied, regarding title, possession, condition, or encumbrances, including fees, charges and expenses of the Trustee and of the trusts created by said Deed of Trust, to pay the remaining principal sums of the note(s) secured by said Deed of Trust. The total amount of the unpaid balance of the obligation secured by the property to be sold and reasonable estimated costs, expenses and advances at the time of the initial publication of the Notice of Sale is: \$376,985.94 If the Trustee is unable to convey title for any reason, the successful bidder's sole and exclusive remedy shall be the return of monies paid to the Trustee, and the successful bidder shall have no further recourse. The beneficiary under said Deed of Trust heretofore executed and delivered to the undersigned a written Declaration of Default and Demand for Sale, and a written Notice of Default and Election to Sell. The undersigned or its predecessor caused said Notice of Default and Election to Sell to be recorded in the county where the real property is located. NOTICE TO POTENTIAL BIDDERS: If you are considering bidding on this property lien, you should understand that there are risks involved in bidding at a trustee auction. You will be bidding on a lien, not on the property itself. Placing the highest bid at a trustee auction does not automatically entitle you to free and clear ownership of the property. You should also be aware that the lien being auctioned off may be a junior lien. If you are the highest bidder at the auction, you are or may be responsible for paying off all liens senior to the lien being auctioned off, before you can receive clear title to the property. You are encouraged to investigate the existence, priority, and size of outstanding liens that may exist on this property by contacting the county recorder's office or a title insurance company, either of which may charge you a fee for this information. If you consult either of these resources, you should be aware that the same lender may hold more than one mortgage or deed of trust on the property. NOTICE TO PROPERTY OWNER: The sale date shown on this notice of sale may be postponed one or more times by the mortgagee, beneficiary, trustee, or a court, pursuant to Section 2924g of the California Civil Code. The law requires that information about trustee sale postponements be made available to you and to the public, as a courtesy to those not present at the sale. If you wish to learn whether your sale date has been postponed, and, if applicable, the rescheduled time and date for the sale of this property, you may call (844) 477-7869 or visit this Internet Web site WWW.STOXPOSTING.COM, using the file number assigned to this case 106196-CA. Information about postponements that are very short in duration or that occur close in time to the scheduled sale may not immediately be reflected in the telephone information or on the Internet Web site. The best way to verify postponement information is to attend the scheduled sale. NOTICE TO TENANT: Effective January 1, 2021, you may have a right to purchase this property after the trustee

auction pursuant to Section 2924m of the California Civil Code. If you are an "eligible tenant buyer," you

can purchase the property if you match the last and highest bid placed at the trustee auction. If you are an "eligible bidder," you may be able to purchase the

property if you exceed the last and highest bid placed at the trustee auction. There are three steps to exercising this right of purchase. First, 48 hours after

the date of the trustee sale, you can call (855) 313-

www.clearreconcorp.com, using the file number

assigned to this case 106196-CA to find the date on

which the trustee's sale was held, the amount of the

last and highest bid, and the address of the trustee.

Second, you must send a written notice of intent to

place a bid so that the trustee receives it no more

than 15 days after the trustee's sale. Third, you must

submit a bid so that the trustee receives it no more

than 45 days after the trustee's sale. If you think you may qualify as an "eligible tenant buyer" or "eligible

bidder," you should consider contacting an attorney

or appropriate real estate professional immediately

for advice regarding this potential right to purchase. FOR SALES INFORMATION: (844) 477-7869 CLEAR

RECON CORP 4375 Jutland Drive San Diego

internet

or visit this

NOTICE OF PUBLIC SALE

NOTICE OF PUBLIC SALE: Self-Storage Cube contents of the following customers containing household and other goods will be sold for cash by CubeSmart, 2892 Kelvin Ave., Irvine, CA 92614 to satisfy a lien. Auction sale approx. 2:00 storagetreasures.com:

Tenant Name

Matthew Proost, Jesse Singh, Samantha Carter, Tony Moallempour, Truong Nguyen, James Silva, Toney Eggleston, Issac Sanchez, Kevin J. Scott, Mark Caballero All purchased goods are sold "as is." Purchased goods must be removed 72 hours within close of online sale. Sale Subject to cancellation up to time of sale, company reserves the right to refuse any online bids and to bid at he online sale

CNS-3656191# DAILY PILOT

Case No. 30-2022-01288344-PR-LA-CJC
To all heirs, beneficiaries, creditors, contingent creditors, and persons who may otherwise be interested in the will or estate, or both, of CATHERYN SMITH

A PETITION FOR PROBATE has been filed by Janette Manderson in the Superior Court of California, County of ORANGE.

THE PETITION FOR PROBATE requests that Janette Manderson be appointed as personal representative to administer the estate of the

THE PETITION requests authority to administer the estate under the Independent Administration of Estates Act. (This authority will allow the personal representative to take many actions without obtaining court approval. Before taking certain very important actions, however, the personal representative will be required to give notice to interested persons unless they have waived notice or consented to the proposed action.) The independent administration authority will be granted unless an interested person files an objection to the petition and shows good cause why the court should not grant the

A HEARING on the petition will be held on 08 located at 700 CIVÍC CENTER DRIVE W. SANTA ANA CA 92701.

The court is providing the convenience to appear for hearing by video using the court's designated video platform. This is a no cost service to the public. Go to the Court's website at the Superior Court of California - County of Orange (occourts.org) to appear remotely for Probate hearings and for remote hearing instructions. If you have difficulty connecting or are unable to connect to your remote hearing, call 657-622-8278

connect to your remote hearing, call 657-622-8278 for assistance. If you prefer to appear in-person, you can appear in the department on the day/time set for your hearing.

IF YOU OBJECT to the granting of the petition, you should appear at the hearing and state your objections or file written objections with the court before the hearing. Your appearance may be in person or by your attorney. person or by your attorney.

IF YOU ARE A CREDITOR or a contingent

creditor of the decedent, you must file your claim with the court and mail a copy to the personal representative appointed by the court within the later of either (1) four months from the date of first issuance of letters to a general personal representative, as defined in section 58(b) of the California Probate Code, or (2) 60 days from the date of mailing or personal delivery to you of a notice under section 9052 of the California Probate Code.

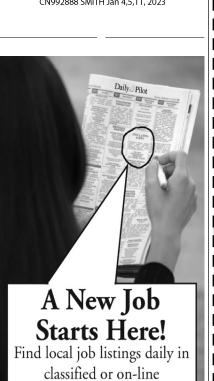
Other California statutes and legal

authority may affect your rights as a creditor. You may want to consult with an attorney knowledgeable in California law. YOU MAY EXAMINE the file kept by the

court. If you are a person interested in the estate, you may file with the court a Request for Special Notice (form DE-154) of the filing of an inventory and appraisal of estate assets or of any petition or account as provided in Probate Code section 1250. A Request for Special Notice form is available from the court clerk.

Attorney for petitioner:
JACK B OSBORN ESQ
SBN 230447
BROWN WHITE & OSBORN LLP
300 E STATE STREET STE 300 REDLANDS CA 92373

CN992888 SMITH Jan 4,5,11, 2023



www.dailypilot.com

PUBLIC NOTICE -NOTICE OF PUBLIC HEARING MESA WATER DISTRICT REGARDING POTENTIAL

CHANGE IN DIRECTOR COMPENSATION WEDNESDAY, JANUARY 11, 2023 4:30 p.m. or as soon thereafter as

the agenda permits. Mesa Water District Boardroom 1965 Placentia Avenue Costa Mesa, CA 92627

Notice is hereby given that the Board of Directors (Board) of Mesa Water District invites the community to attend a public hearing for the purpose of receiving public comments regarding proposed changes in Board of Director's fees/compensation.

This item will be discussed and comments will be received at such time and place. Comments may be presented verbally or in writing. Any comments must be received not later than the conclusion of the public nearing in order to be considered. Attendance at meetings of the Board is open to the public. For more information, or if you would like assistance in presenting our comments to the Board at the public hearing, olease contact Denise Garcia, District Secretary, at (949)

Published Daily Pilot on December 28, 2022 and January

NOTICE TO CREDITORS OF BULK SALE

(UCC Sec. 6105) Escrow No. CEG110950-BW

NOTICE IS HEREBY GIVEN that a bulk sale is about to be made. The name(s), business address(es) of the Seller(s), WRENCO, 3800 Barranca Parkway Suite E, Irvine, CA

92606-1200 Doing Business as: MASSAGE LUXE SPA

All other business names and addresses used by the Seller(s) within three years, as stated by the Sellers are: The location in California of the Chief Executive Officer

The name(s) and address of the Buyer(s) is/are:
MICHELE STREET AND ASSOCIATES INC., 2072 Maverick

Cir, La Verne, CA 91750 The assets to be sold are described in general as:

SERVICE and are located at: 3800 Barranca Parkway Suite , Irvine, CA 92606-1200

The bulk sale is intended to be consummated at the office of: Central Escrow Group, Inc., 515 West Garvey Ave., Suite 118, Monterey Park, CA 91754 and the anticipated sale date is 01/23/23

The bulk sale is subject to California Uniform Commercial Code Section 6106.2 YES

The name and address of the person with whom claims may be filed is: Central Escrow Group, Inc., 515 West Garvey Ave., Suite 118, Monterey Park, CA 91754 and the last date for filing claims by any creditor shall be 01/20/23, which is the business day before the sale date specified above.

TOP BRANDS

BIGGER

Dated: December 8, 2022

MICHELE STREET AND ASSOCATES INC. By: S/ MICHELE STREET, CEO By: S/ ARVIN R. SARROCA, CFO

CNS-3656564# **DAILY PILOT**

childbirth of the new year. "The unit was so excited to deliver the first baby of 2023, especially to be the

Sherri Hatch, the clinical supervisor for postpartum,

was the attending nurse.

She said MemorialCare Or-

ange Coast Medical Center

delivers an average of 1,600

Hatch has been a post-

partum nurse with Memo-

rialCare for 19 years but

said this is the first time

she's been a part of the first

babies per year.

first delivery out of the MemorialCare system's three facilities," Hatch said. "It was an excited energy on the unit. We are so honored to be trusted by the Hsieh family to deliver their newborn and be a

their lives."

Cardine contributed to this part of this special time in

matthew.szabo@latimes.com Twitter: @mjszabo

Daily Pilot

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See Mailhag for guidelines The Daily Pilot, established in 1907, is published

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COMMENTARY | JOSEPH KLUNDER

Long-term community efforts needed to return life to normal

alifornia has been in an official state of emergency until around February 2023. Here in Beijing, there have been total lockdowns, confining residents to their apartments. Suddenly, up to half of China has been infected with a mild form of airborne coronavirus, which the entire world may receive soon.

We all realize COVID-19 is here to stay. Society must adhere to strict precautions until scientists create more effective vaccines, treatments and maybe even a cure. As a manufacturing country, China recognizes this and plans to keep producing masks, protective equipment, hand sanitizer, essential living goods like toilet paper and anything else necessary.

Beyond acknowledging this long-term reality, what can we do to ensure that our community continues to develop and be a wonderful place to live?

I praise local community colleges as a hub for immediate relief and longterm development trajectory.

There are referral services for local housing at shelters for those without housing. A food pantry provides groceries and essential living supplies,

such as hygiene and toiletries. For transportation, there are bus vouchers. For books and computers, there are loaning programs without requiring any deposit. There are essential resources and trained personnel, both online and in-person, to give physical health and psychological care. Recently, there has even been cash relief of up to \$1,500 for those who demonstrate financial hardship.

Longer-term, we need to look for ways to relentlessly develop our skill sets, using education as the foundational tool. Yes, healthcare services can help get any human back to standard functionality. But what then? Even if someone fully recovers, do they want to return to scrounging for minimum-wage work with little chance of being promoted?

The first step toward success is learning the local language, in this case: English. Orange Coast College, Coastline Community College and Golden West College have some of the country's best-trained English as a second language teachers. Federal and state funding gives these teachers essential quality control and training in ways that foundational

English programs at the University of California and even expensive private universities cannot. Methods such as Siegfried Engelmann's Direct Instruction model are used because they are proven repeatedly with government research rather than a whim to customer demand.

Learning basic skills, such as basic writing, math and computer applications, is also required.
Local community colleges train those skills. After that, getting a high school equivalent such as the GED, TASC or HiSet allows someone to demonstrate sufficient mastery of language arts, math, science and social studies to move on to college courses.

Our local community colleges have over one hundred typical concentrations (academic majors). Someone can decide if they want a certification to show a primary measure of knowledge and skills or have an associate of arts degree for transfer. Assist.org and Transferology-.com show how this transfer system allows a seamless transition into a bachelor's program in nearly every public or private

It is possible to get relief



Scott Smeltzer | Staff Photographer

COASTLINE COLLEGE employees give tours of the new Student Services Center building during the grand opening on Nov. 10 in Fountain Valley.

from immediate programs, enroll in academic learning and use the Career Advantage Program. Being an educational researcher and counselor with global experience, I assure any reader that these programs are well-funded, have excellent staff and genuinely care about helping others. Even those with intellectual disabilities, past academic trouble, social

problems or former incarcerations have been surprised at how understanding, supportive and helpful many of the community college staff are.

Having worked in the U.S. and six countries abroad, I see true happiness comes from finding a good fit for a job. Then, someone becomes relevant, needed and can help others. Soon enough, that

employed person pays taxes and helps fund the next generation of social programs, paying it forward to others.

JOSEPH KLUNDER is a native of Newport Beach and has been an international school teacher and counselor worldwide. He currently resides in Beijing and welcomes anyone to contact him for mentorship.

BOYS' BASKETBALL

Irvine defense stifles Estancia in Coast Classic final

BY ANDREW TURNER

Since opening its Orange Coast League schedule with back-to-back losses, the Estancia High boys' basketball team had taken off.

The high-flying offense of the Eagles had sent them on a six-game winning streak and into the finals of their host tournament on Friday night.

A lockdown defensive effort from Irvine spoiled the party, as the Vaqueros topped the Eagles 54-38 in the championship game of the Coast Classic at Estancia High.

Center Cooper Stearns, a sophomore, is already making his mark for Irvine (12-8). Stearns amassed 18 points, nine rebounds, five assists, three steals and two blocked shots in the final, after which he was named tournament MVP.

With a playmaker in Stearns working in the paint, the Vaqueros found space for their shooters,



James Carbone

ESTANCIA'S Jaedon Hose-Shea (31), seen against Costa Mesa on Dec. 16, earned all-tournament team honors in the Coast Classic at Estancia High on Friday.

and their shots dropped. Daniel Shin scored 16 points, including four made three-pointers, and Todd Bryan also netted six of his eight points from the three-point line.

"As long as our energy is good on defense and we're keeping the game score low, then offensively, when we do start to shoot the ball like you saw today, then we're really putting it together," Irvine coach Harry Meussner said. "Then we're really scary, and we can carry all four quarters."

The Eagles delivered the first punch. Reef Johnson cleaned up an offensive rebound for the opening bas-

ket. A drop-step in the key and a three-pointer off an inbounds pass, both by Peter Sanchez, had Estancia up 7-0 less than two minutes into the game.

Irvine, though, was equal parts stingy on defense and clutch on offense. The Vaqueros went on a 15-2 run to end the first quarter. When Estancia fought back to make it a one-possession game on Johnson's three with 30 seconds left in the first half, Shin answered from the right corner to give Irvine a 28-22 halftime lead.

"We got punched in the mouth early," Stearns said. "In my head and other guys' heads, we felt like we were confident we could come back from this, and [we] felt like our defense is better than that, our rebounding. Once we got up 13-9 and we went on that run on the defensive end, I think we felt like, 'Okay, we got that spark that we knew we had from the begin-

ning.'"

Just two weeks prior, Estancia (14-5) had opened league play with losses to Calvary Chapel and Costa Mesa, averaging 40.5 points across those two games. During its six-game winning streak, Estancia increased its offensive output to 76.7 points per game, including 85 points in consecutive games against Orange and Saddleback to even out its league record at 2-2 entering the new year.

The Eagles also notched wins over Moreno Valley Vista del Lago, Los Amigos and Santiago to reach the Coast Classic final. Estancia coach Xavier Castellano said his team had last won its own tournament in 2019.

Johnson tied Stearns for the game-high total with 18 points, converting four three-pointers for the Eagles. Sanchez added 11 points and six rebounds. Jaedon Hose-Shea, who was named to the all-tournament team, finished with eight points, eight rebounds, four steals, three assists and a block.

Castellano said his team has had some looks at Irvine, a team they could potentially see again in the CIF Southern Section Division 5AA playoffs.

"We saw them in the spring, we saw them in the fall. We know how good they are," Castellano said. "We tried to key in on Cooper, but you got to give

his teammates credit."

Castellano also commented on his team's overall performance in the tournement

"We're very happy," he said. "Disappointed at the same time because we had a chance to hopefully win our own tournament, but the kids played hard. I can't ask any more. It was a great effort. It's a great group of kids that just work their tails off for us."

andrew.turner@latimes.com Twitter: @AndrewTurnerTCN

SOLAR

Continued from page A1

lanthropist Donald Bren, chairman of the Irvine Co. and lifetime member of Caltech's Board of Trustees who, intrigued by the potential applications of space-based solar energy, contributed more than \$100 million to the project over a decade.

A 2011 article in Popular Science magazine indicated a solar panel placed in space could harvest five times the energy of earthbound counterparts subject to weather patterns and sunless nights.

It cited a 2007 National Space Society study indicating a half-mile band of photovoltaic cells orbiting the planet could generate as much energy as all the oil remaining on Earth in the span of a single year.

Bren spoke with leaders at Caltech and in 2013, agreed with wife and fellow Caltech trustee Brigitte Bren to fund the Caltech Space Solar Power Project.

"For many years, I've dreamed about how space-based solar power could solve some of humanity's most urgent challenges," Donald Bren said in a statement following Tuesday's launch. "Today, I'm thrilled to be supporting Caltech's brilliant scientists as they race to make that dream a reality."

Able to circle the planet from a Vigoride spacecraft



Courtesy of Caltech / Momentus

ENGINEERS CAREFULLY lower the Deployable on-Orbit ultraLight Composite Experiment portion of the Space Solar Power Demonstrator onto the Vigoride spacecraft.

created by Californiabased Momentus to carry payloads in orbit, the instrument is anticipated to begin returning data to Earth in the next couple weeks.

Caltech senior researcher Michael Kelzenberg said the goal of the demonstration is not to directly transmit electricity from space but to determine the best methods, instruments and materials for creating effective, cost efficient technologies for "[Space-based solar power] is truly a renewable energy source that could meet all of Earth's energy needs," he said. "Our goal is to make it so it becomes a good decision, or a worthwhile decision in the future, for the type of entities that could build something at this scale."

something at this scale."

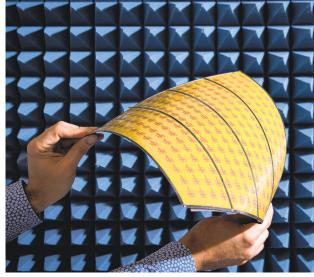
The Caltech team will be conducting three main experiments. The Deployable on-Orbit ultraLight Composite Experiment (DOLCE) will test the deployment of lightweight, fold-

able solar energy-capturing structures that open to receive sunlight.

ALBA (Italian for "dawn") will test the performance of as many as 32 different types of photovoltaic cells to determine which are most efficient and resilient.

most efficient and resilient.
The Microwave Array for
Power-transfer Low-orbit
Experiment (MAPLE) will
test the function of lightweight, flexible microwave
transmitters capable of directing wireless power to
two different receivers and

test performance over time



Lance Hayashida / Caltech

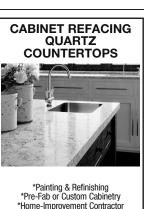
THE PROTOTYPE antenna sheet for the power transmitter array that demonstrates the unit's flexibility. Each orange square on the yellow tile is an antenna to be driven by a single transmitter.

under certain conditions.

Kelzenberg, who watched Tuesday's launch via livestream in Pasadena, described being in a period of calm, as the host spacecraft performs initial operations, before a stream of data comes pouring in.

"In the next few days, we expect our payloads to be powered up then, over the next few weeks, we'll start getting data and giving commands," he said. "For today, we're celebrating the successful launch and all of the work it took to get us

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Photos by Don Leach | Staff Photographer

GUESTS TAKE cover at a recent water polo match at Newport Harbor High School during a rain downpour. Rain is expected in the area on Wednesday and Thursday.

RAINFALL

Continued from page A1

amounts of rain are expected Thursday.

Flooding is not expected in coastal Orange County.

Coto de Caza saw about 3.62 inches of rainfall over the weekend, and voluntary evacuations were in place for Silverado and Williams Canyon on New Year's Eve through New Year's Day in case of possible debris flow in the burn scar of the 2020 Bond fire.

NATIONAL WEATHER SERVICE

meteorologists
are forecasting a
"real drencher"
on Thursday,
with widespread
rain expected to
last throughout
the day.

Meteorologist Brandt Maxwell said it's possible the Orange County coast will see its largest surf in more than a decade.

He noted waves off Huntington Beach reached 14 feet in January 2012.

Local waves Thursday are expected to average around 8 to 12 feet, though they could exceed that, Maxwell said, and will likely be higher in neighboring San Diego County.

No precipitation is forecast for Friday, and a drier weekend is expected, at least for Southern California.

Stormy weather isn't uncommon for this time of year, according to Maxwell, who noted the state's wet season spans from late November through mid-April.

"If we're going to have rain, this is the time to get it," he said.

The recent spate of storms is attributed to atmospheric rivers coming from the Pacific Ocean, mixed with a low pressure trough over the region.

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THE DAILY COMMUTER PUZZLE

By Jacqueline E. Mathews

ACROSS 1 Whitney & Wallach 5 Sticker 10 Say no more 14 Icy oval 15 Wear away 16 Cleveland's place 17 Doubtful 18 Irises & anemones 20 Suffix for racket or auction 21 Use a scythe 22 Galway folks 23 On the ball 25 Large club 26 Chaperone 28 Globe

31 Church table 32 Cone-shaped home 34 Go off the deep

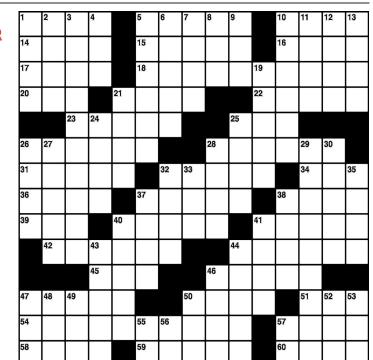
36 Equestrian's

control 37 Long stories 38 Stick around 39 Zodiac sign 40 Croons 41 Cinnamon or nutmeg 42 Actor Don 44 Newspaper section 45 Quilting party 46 Make joyous 47 " John B"; Beach Boys hit 50 Sassy child 51 "_. Doubtfire" 54 Penalty 57 TV's "_ Team" 58 Matures 59 Spooky 60 In the past 61 Hornet's home 62 Money earned

DOWN

63 Fret

1 One of the Great Lakes 2 Classic board game



SUDOKU

By The Mepham Group

Complete the grid so each row, column and 3-by-3 box (in bold borders) contains every digit, 1 to 9. For strategies on how to solve Sudoku, visit *sudoku.org.uk*.

						9		
1		8					7	
9			2	8	7			
	2			9	1	8		
		1	7	3			4	
			4	5	9			7
4	3					2		8
		9				5		

For answers to the crossword and Sudoku puzzles, see page A2.

3 Rule violation 4 Heaven above 5 Leave 6 Standing straight 7 Largest county in Ireland 8 Ending for lemon or lime
9 Dance judge
Goodman
10 Evening party
11 Asian language
12 Engine
additives
13 Luxurious

19 Wall recess 21 Munich man 24 Money advanced

25 Jungle beasts 26 Carter's middle name 27 Smooth and

glossy 28 Swirling pools 29 Time for a gold watch 30 Sign into law

32 Brown shades 33 Cake ingredient 35 Recolors 37 Locale 38 Dick & Jane's

dog 40 Staircase parts 41 Argument 43 Woodwind

player 44 Blackboards 46 Els, for one 47 Bridge

48 Sled race 49 Dollar bills 50 Arctic hazard 52 Indy 500, e.g.

53 Murdered 55 Chop down 56 "Give _ break!" 57 Distress signal

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