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MONTEREY INSTITUTE FOR RESEARCH IN ASTRONOMY

SMALL INSTITUTE MAKES **BIG SCIENTIFIC ADVANCES**



Daniel Cotton discusses the recently published study he led. The research relied on a special tool called a polarimeter, which is on the desk in front of Cotton.

By McKenzie Prillaman

@monterey herald.com

MARINA » Tucked beyond an co-founder of MIRA, the inexpanding shopping center stitute's scientists were the and a row of recently built first to apply machine learnhouses off Highway 1 lies a ing to astronomy in the early cluster of Fort Ord-era build- 1990s — Weaver trained a ings. In these structures which once were a top-secret gorize stars based on a charmilitary training facility astronomers investigate far- substances in their atmoaway worlds.

nonprofit astronomical obsearch and education. Today, about a dozen astronomers and six community data provided by their obin the Los Padres National Forest. Donations from the fund their work.

search during its 50-year

For instance, according to Bruce Weaver, director and computer program to cateacteristic that identifies the spheres. Additionally, a re-The Monterey Institute cently published study docfor Research in Astron- uments how researchers omy is a privately-funded used a special tool to learn features about a type of star servatory dedicated to re- responsible for releasing in- tution can punch above with conducting research. gredients to make new gal-

"The vast majority of scientists comb through high impact astronomy research is conducted at large servatory on Chews Ridge universities, (but) MIRA has been bucking this trend for 50 years," said Daniel group Friends of MIRA and Cotton, a research astron- of graduate students at Case grants from NASA and the omer at MIRA and lead au-National Science Foundation thor of the new study. "Our in Ohio was unhappy about (recent) discovery ... is just their job prospects. They Although the institute the latest example of this, didn't want to work at a uniis small, its scientists have It reaffirms that with pub-versity because that meant



The Monterey Institute for Research in Astronomy offices in

its weight and reveal new

Breaking away from universities

In the early '70s, a group Western Reserve University

Instead, in 1972, the six things about the universe astronomers, one mathematician and two spouses founded MIRA, the first private observatory to open in the U.S. in the 20th century. This way, they could devote their full attention to research and avoid the bureaucracy accompanying federal funding and university affil-

iation. Building their workplace came with other advantages, published innovative re- lic support, a small insti- teaching in conjunction according to Weaver. "Since **SCIENCE** » PAGE 3

CRISIS IN EUROPE

Ukraine calls the West cowards

By Yuras Karmanau

The Associated Press

LVIV, UKRAINE » Ukrainian President Volodymyr Zelenskyy accused the West of cowardice Sunday as his country fights to stave off Russia's invading troops, making an exasperated plea for fighter jets and tanks to sustain a defense as the war ground into a battle of attrition. Speaking after U.S. President Joe Biden said in

a lacerating speech that Russian President Vladimir Putin could not stay in power - words the White House immediately sought to downplay Zelenskyy lashed out at the West's "ping-pong about who and how should hand over jets" and other weapons while Russian missile attacks kill and trap civilians.

'I've talked to the defenders of Mariupol today. I'm in constant contact with them. Their determination, heroism and firmness are astonishing," Zelenskyy said in a video address, referring to the besieged southern city that has suffered some of the war's greatest deprivations and horrors. "If only those who have been thinking for 31 days on how to hand over dozens of jets and tanks had

WEST » PAGE 3

POLITICS

Biden finds no respite at home after returning

By Chris Megerian and Aamer Madhani The Associated Press

WASHINGTON » With the last nine, unscripted words of an impassioned speech about Russia's aggression in Ukraine, President Joe Biden created a troubling distraction, undermining his effectiveness as he returned home to face restive Americans who strongly disapprove of his performance on issues that matter most to them.

His comment that Russia's Vladimir Putin "cannot remain in power" - an assertion that his aides were forced to quickly clean up — overshadowed his larger message of solidifying the western coalition that's confronting Moscow.

BIDEN » PAGE 3

FOREIGN RELATIONS

Blinken reassures allies ahead of Iran deal

The U.S. Secretary of State tried to reassure a wary Israel ahead of a possible renewal of an Iran nuclear deal. PAGE A5



ASIA

Taliban now preserving Kabul's Buddha statues

Afghanistan's Taliban rulers are pinning their hopes on Beijing's help to salvage their economy. PAGE A8

CRISIS IN EUROPE

War shakes path to energy, climate goals

Europe's most pressing concern before Russia's war in Ukraine was reducing carbon emissions. PAGE A6

COVID-19

Don't know how to make a booster appointment?

Visit Monterey County Health Department webpage at https://bit.ly/3qtjYUO for links to schedules and registration.

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MediaNews Group

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Митиаг *•* Отана

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West

FROM PAGE 1

1% of their courage."

Ukraine's ambassador to the U.S., Oksana Markarova, said on NBC's "Meet the Press" that her country had heard Biden "loud and clear."

"Now, it's all up to all of us to stop Putin while it's still local in Ukraine because this war is not only about Ukraine," she said, but "an attack on democ-

Russia's invasion of Ukraine, now in its 32nd day, has stalled in many areas. Its aim to quickly encircle the capital, Kyiv, and force its surrender has faltered against staunch Ukrainian resistance — bolstered by weapons from the U.S. and other Western al-

Zelenskyy signed a law Sunday that bans reporting on troop and equipment movements that haven't been announced or approved by the military. Journalists who violate the law could face three to eight years in hansk People's Repubprison. The law does not lic, said it plans to hold differentiate between Ukrainian and foreign reporters.

Britain's Defense Ministrying to encircle Ukrainian forces facing the two country's east. That would cut the bulk of Ukraine's military off from the rest of the country.

Moscow claims its focus is on wresting the entire eastern Donbas region, which has been partially controlled by Russiabacked separatists since 2014. A high-ranking Russian military official said Friday that troops were being redirected to the east from other parts of the country.

The leader of one separatist-controlled area of Donbas said Sunday that independent Ukraine," Buhe wants to hold a vote on joining Russia, words released by the Defense nity? Is it still Moscow,



RODRIGO ABD — THE ASSOCIATED PRESS

Members of the territorial defense warm themselves with a fire at a check point in Kyiv, Ukraine.

nid Pasechnik, the head of the self-proclaimed Lua referendum on becoming part of Russia "in the nearest time."

Russia has supported try said Russia's troops are the separatist rebels in However, the Russians then Luhansk and neighboring Donetsk since an inseparatist-held areas in the surgency erupted there have met previously with shortly after Moscow annexed the Crimean Peninsula from Ukraine in 2014. In talks with Ukraine, Moscow has demanded dependence of Donetsk and Luhansk.

head of Ukrainian military intelligence, accused Russia of seeking to split Ukraine in two, like North and South Korea.

"The occupiers will try to pull the occupied territories into a single quasi-state structure and pit it against danov said in a statement the Euro-Atlantic commu-

nians would derail such plans

A Ukrainian delegate in talks with Russia on ending the war, Davyd Arakhamia, said in a Facebook post the countries would meet in Turkey beginning Monday. announced the talks would start Tuesday. The sides no deal reached.

defeat Russia, the West must provide fighter jets and not just missiles and Kyiv acknowledge the in- other military equipment. A proposal to transfer Polish planes to Ukraine via Kyrylo Budanov, the the United States was scrapped amid NATO concerns about being drawn into direct fighting.

In his pointed remarks, Zelenskyy accused Western governments of being "afraid to prevent this tragedy. Afraid to simply make a decision."

'So, who is in charge of

in Russia's position. Leo- guerrilla warfare by Ukrai- tics?" he asked. "Our part- Plesetske just west of Kyiv, ners must step up their aid to Ukraine.'

His plea was echoed Sunday by a priest in the western city of Lviv, which was struck by rockets a day earlier. The aerial assault illustrated that Moscow, despite assertions that it intends to shift the war eastward, is slav Prokopiv, said he saw willing to strike anywhere in Ukraine.

When diplomacy doesn't hurt. Ukraine says that to work, we need military support," said the Rev. Yuri Vaskiv, who reported fewer parishioners in the pews of his Greek Catholic church, likely because of fear.

> Referring to Putin, he said: "This evil is from him, and we must stop it."

> Russian Defense Ministry spokesman Maj. Gen. Igor Konashenkov confirmed Russia used airlaunched cruise missiles a defense plant in Lyiv, about 45 miles (75 kilome-

where Ukraine stored air defense missiles.

A chemical smell lingered in Lyiv on Sunday as firefighters trained hoses on flames and black smoke poured from oil storage tanks hit in the attack.

A security guard, Yarothree rockets destroy two oil tanks but no one was

Russia's back-to-back airstrikes shook the city that has become a haven for an estimated 200,000 people who have fled bombarded towns and cities. ble. Lviv, which has largely been spared bombardment, also has been a waystation for most of the 3.8 million refugees who have left Ukraine since Russia invaded on Feb. 24.

to hit a fuel depot and bomb shelter under an he said. apartment block near the first blast site, Olana Nebi Qena in Kyiv, Cara ters) from the Polish bor- Ukrainets, a 34-yearder. He said another strike old information technolwith sea-launched mis- ogy professional, said she around the world contribthat may indicate a shift Ministry. He predicted that thanks to its scare tac-siles destroyed a depot in couldn't believe she had uted to this report.

to hide again after fleeing from the northeastern city of Kharkiv, one of the most bombarded cities.

'We were on one side of the street and saw it on the other side," she said. We saw fire. I said to my friend, 'What's this?' Then we heard the sound of an explosion and glass breaking."

In his video address, Zelenskyy angrily warned Moscow that it was sowing a deep hatred for Russia among Ukrainians.

"You are doing everything so that our people themselves leave the Russian language, because the Russian language will now be associated only with you, with your explosions and murders, your crimes," Zelenskyy said.

Along with the millions of people who have fled Ukraine, the invasion has driven more than 10 million people from their homes, almost one-quarter of Ukraine's population. Thousands of civilians are believed to have been killed.

While Russia's advance on Kyiv remains stalled, fighting has raged in the suburbs, and blasts from missiles fired into the city have rattled the St. Sophia Cathedral, a 1,000-yearold UNESCO world heritage site that is the heart of Ukrainian spiritual and national identity.

Vadim Kyrylenko, an engineer and conservator who is the most senior manager remaining at the church, said a strike nearby "would be a point of no return for our landmark because it is very fragile and vulnera-Pointing at the ca-

thedral's golden domes, Kyrylenko said the cross atop the central one toppled a month before the outbreak of World War II.

The cross on the left fell In a dim, crowded a month before this war,"

Andrea Rosa in Kharkiv, Anna in Lviv and Associated Press journalists

Biden

FROM PAGE 1

It punctuated another administration that's struggled to regain its footing and the American electorate's support — in the face light onto some his domesof an ongoing pandemic, es- tic priorities this week. calating inflation and an increasingly complicated for- a new budget proposal on eign policy crisis that raises Monday, which includes the specter of nuclear con-

united front to punish Russia with sanctions for the invasion of Ukraine, polls show Americans feel no better about his leadership as the bloody war continues. Meanwhile, Democrats are in danger of losing control of Congress in November's midterm elections, leaving Biden with limited opportunities to advance a progressive domestic agenda that remains stalled.

The president is on the verge of securing the confirmation of the first Black woman, Ketanji Brown Jackson, on the U.S. Supreme Court, yet there's no clear path forward for him to fulfill other campaign promises around voting rights, criminal justice reform and fighting climate change. While polls show that Jackson is broadly supported by Americans, it hasn't helped improve Biden's standing with vot-

ers less than eight months before the midterms, which Republicans hope to frame as a referendum on the president.

The war in Russia has frustrating moment for an consumed much of the White House's messaging bandwidth, but Biden is looking to turn the spot-

He is expected to unveil a renewed focus on cutting the federal deficit and Although he's forged a a populist proposal to increase taxes on the wealthiest Americans.

far from a certainty households worth more than \$100 million - a measurement of wealth, not income — would have to pay a minimum tax of 20% on their earnings.

The added revenue could help keep the deficit in check and finance some of Biden's domestic priorities, including expanded safety net programs. There are few if any signs of Republican support for the proposal so far, and even some Democrats have been lukewarm to the idea.

by his approval ratings. A slim 34% of Americans think Biden is doing a good job handling the economy, which is normally the top issue for voters in an election year, according to a poll released Thursday by

CAROLYN KASTER - THE ASSOCIATED PRESS

President Joe Biden arrives on Marine One on the South Lawn of the White House after a four-day trip to Europe.

Center for Public Affairs Re-

His contentious assertion about Putin in his Warsaw speech did little to help things. The White House rushed to clarify that Biden wasn't actually calling for "regime change," but by the next day it became clear that the dramatic statement had produced some of the first overt cracks in unity among NATO nations that had just convened in Brussels for an emergency meet-

Some leading Western Biden's case isn't helped European allies, including France and Germany, tend to be more cautious than the U.S. about how to confront Russia. Until Saturday night, Biden had calibrated his words carefully. French President Emanuel Macron said Biden's remarks could

If approved by Congress The Associated Press-NORC make it harder to resolve the conflict.

"I wouldn't use those terms, because I continue to speak to President Putin, because what do we said. "We want to stop the war that Russia launched in Ukraine, without waging war and without escalation.

rare bipartisan support for his handling of the Ukraine crisis. But some Republicans who have been generally supportive of his approach to the crisis chided him for his comments.

Sen. James Risch of on the Senate Foreign Relations Committee, dryly noted on CNN's "State of the Union" on Sunday, "Please Mr. President, stay on script."

Ohio, told NBC's "Meet the Press" that Biden's final hands of the Russian propagandists and plays into the hands of Vladimir Putin."

Secretary of State Antony Blinken was forced to focus on solidifying American partnerships as the administration seeks a renewed nuclear agreement with Iran.

Speaking at a news conference in Jerusalem, Blinken said Biden meant that "Putin cannot be empowered to wage war or engage in aggression against Ukraine or anyone else."

Even as Biden seemed to want to do collectively?" he go too far for some allies with his speech, Ukrainian President Volodymyr Zelenskyy seemed to draw little comfort from it. He accused Western nations of lacking Biden has enjoyed some courage to confront Russia, and he said criticized their 'ping-pong about who and how should hand over jets" Ukrainian military.

The speech in Warsaw was the third, and by far most consequential, of in-Idaho, the top Republican stances from the trip where Biden's aides needed to clean up his comments.

During a news conference in Brussels on Thursday, he said the U.S. would respond "in kind" if Putin

Sen. Rob Portman, R- used chemical weapons in Ukraine. The next day, national security advisor Jake comment "plays into the Sullivan said the president meant that "we'll respond accordingly," not that the U.S. would use chemical weapons of its own.

And then, while speakcontinue clarifying Biden's ing to members of the 82nd speech during a trip Airborne Division soldiers through the Middle East, recently deployed to Powhere he had intended to land, Biden seemed to suggest they would be going to Ukraine. Speaking about the bravery of Ukrainians, Biden said, "Look at how they're stepping up. And you're going to see when you're there."

> Afterwards, the White House reiterated that Biden had no intention of sending troops into Ukraine, something the president has insisted since the beginning of the conflict.

> While running for office two years ago, Biden repeatedly told voters that "the words of a president matter," and he promised that his foreign policy experience would serve the country well on the international stage.

There's little doubt that and other weapons to the Biden has been able to maintain unusual unity among allies during this war. But by speaking with more passion than caution - particularly in his speech in Warsaw - Biden has also reminded Americans of his proclivity for misstatements at a precarious time for his pres-

Science

FROM PAGE 1

we weren't associated with a university, we could pick any place in the world to do astronomy," he said.

After settling on the U.S. because of Americans' support of private philanthropy, the team needed to choose a region to place their main research telescope. The East Coast's atmospheric conditions are poor, the air down south around LA contains too and the skies north of San clouds, Weaver explained.

So that leaves you with Forest," he said. "Lick Ob-

had done some studies of one of the mountains there and found that the stability of the images was much, much better than other places."

With that in mind, the co-founders placed their research telescope on top of Chews Ridge, approximately 5,000 feet above sea level in the Santa Lucia Range above Big Sur. They finished assembling the 5.5-ton instrument in 1977. They named the entire structure the Oliver Observing Station in honor much light and pollution of scientist Bernard M. Oliver, who donated a sizeable Francisco are filled with amount of money to pay for the station's construction.

While the telescope the Los Padres National snaps pictures of the night when they die, they produce regularly in the main of-swer those questions for evsky from the forest, MIRA's the majority of the materifice building, and MIRA erybody else."

servatory (near San Jose) offices, computing and educational facilities sit approximately 40 miles away in Marina. The institute acquired these buildings in the 1990s after the Army base at Fort Ord closed.

This campus is where astronomer Cotton sifted through data gathered by a special new tool attached to MIRA's research telescope. The instrument helped him figure out how the shape of a specific type of star is distorted. Using this technique, Cotton and his research team found that a star called Beta Crucis is about 11 million years old and 14 times as massive as the sun. Scientists are interested in hot, massive stars like Beta Crucis because

als found in space. This discovery is only the

beginning, though.

One star is interesting, but a lot of stars is data," said Cotton, explaining he will measure more stars over the next few years. "If you want to find out what the galaxy is actually doing and how it's going to evolve, then you need to know how all these heavy stars are living their lives."

In addition to research, MIRA's scientists devote their day thinking about themselves to education. A smaller telescope housed in the Weaver Student Observatory at the Marina wondering, 'Everything's campus is available for intern projects and pub- from?" Cotton said. lic events. An amateur astronomy club also meets ciety that gets to try and an-

hosts scientific talks at Monterey Peninsula College. They plan on having their first public lecture since the COVID-19 pandemic began in a couple of

Overall, the scientists at MIRA are dedicated to learning about the magnificent objects beyond Earth and teaching others about

"Most people don't spend the majority of (the universe), but they spend some fraction of their time occasionally so big. Where do we come

"And we're the part of so-









Ж Митиаг*•* Отана ReverseManDan.com