



The Arkup houseboat is a green-energy, luxury, floating home that is docked off Palm Island near Miami Beach. The floating house has solar panels, impact-resistant windows, and can withstand hurricane winds of up to 155 miles per hour.

Want to avoid sea-level rise? Pay \$5.5 million for floating home

■ Instead of fighting sea rise, go with the flow aboard Arkup, an innovative, green houseboat made in Mlami and designed for our blue future.

BY LINDA ROBERTSON irobertson@miamiherald.com

Why let sea rise sink your Miami lifestyle when you can go with the flow aboard the Arkup houseboat?

Arkup is designed with the ingenious engineering feature of four hydraulic pilings that stabilize the vessel on the sea floor or allow it to lift like a house on stilts above floodwaters, king tides, and hurricane-whipped storm surges. South Florida sea levels are projected to rise 6 to 12 inches by 2030, 14 inches to nearly three feet by 2060, and 31 inches to nearly seven feet by 2100, according to the Southeast Florida Climate Change Regional Compact Sea Level Rise Work Group. Miami Beach and the Keys might be inundated first, but the entire region is recognized as one of the most vulnerable on the planet.

In this brave new waterworld, Arkup will keep you high and dry on your floating home.

Noah, who constructed his ark to withstand 40 days and 40 nights of apocalyptic rain and Biblical flooding, would approve. He probably could not afford the modern version, which has a sticker price of \$5.5 million, but he would like the comfort, spacious

SEE HOUSEBOAT, SA



The Arkup houseboat has 2,600 square feet of indoor space and 1,750 square feet of outdoor space.

Carnival is first U.S. firm sued for using seized property in Cuba

m Javier Garcia-Bengochea and Mickael Behn, whose families' Cuba properties were seized by Fidel Castro, sued Carnival on the first day that President Donald Trump allowed them to seek claims under the Helms-Burton Act.

BY DAVID SMILEY AND NORA GAMEZ TORRES dimiley@miamiherald.com ngamettorres@clnueroherald.com

Carnival Cruise Lines was hit Thursday with unprecedented lawsuits filed by businessmen who for decades have sought justice after their families' properties were seized by Fidel Castro nearly

where Carnival's cruise liners have anchored following President Barack Obama's efforts to normalize relations with the Castro regime.

"Thanks to the Cuban exile community and the LIBER-TAD Act, we can finally get justice after 60 years," Behn, whose grandfather owned buildings and three piers at the entrance to the Port of Havana before they were



Mickael Behn reacts as he stands next to his attorney. Roberto

WEST MIAMI-DADE

Builder of collapsed FIU bridge will pay victims up to \$42 million

m A deal that a bankrupt builder has forged with its insurers will pay the families of those killed by the Florida International University bridge collapse as well as injured survivors up to \$42 million.

BY NICHOLAS NEHAMAS

nnchamas@MiamiHerald.com

The bankrupt construction company that built the doomed Florida International University pedestrian bridge has reached a deal with its insurers to pay up to \$42 million to victims and their families.

The deal between Magnum Construction Management, formerly known as Munilla Construction Management, and the insurance companies is a step forward in resolving complicated litigation involving the families of the six people who died on March 15, 2018, and eight injured survivors.

"I hope this is the first major step in getting closure for these families that desperately

SEE BRIDGE, 3A

THE FLORIDA LEGISLATURE

Ban on 'sanctuary cities' to become law in Florida

■ Under the bill, local police would be required to honor federal requests to hold people who could be 'removable aliens.'

BY SAMANTHA J. GROSS

sgross@miamiherald.com Herald/Times Tallahamee Bureau

week of legislative back-and-forth and the stress of rapidly diminishing time weighing on both chambers, the bill to ban so-called "sanctuary cities" is headed to the governor's desk.

The controversial bill's passage comes after months and months of heightened emotional discourse, protests and deals made among stakeholders wishing to appease the Republican base. SB 168 passed 22-18 in the Senate and 68-45 in the House.

Under the bill, local law enforcement and other state agencies would be required to honor federal law enforcement's request for an "immigration detainer," meaning a request that another law-enforcement agency detain a person based on probable cause to believe that the person is a "removable alien" under federal immigration law. The bill would essentially make the "request" a requirement.

The path to passing a bill was not a straight one, as the state's two chambers have jockeyed

SEE CITIES, 2A



SEBOAT

d retractable form. powered and rainwaterpurifying sustaining adaptation for

ke a house t you never takable feelon the walas Derouin, ctor of Ar-

uilt in Miami d Arnaud ench engihere and for the vironmental

ritnessed the ate change ise in their town and rld. On Monannounced capital out wampy, and drowning million

ning before
rouin said.
s are the most
also the most
is impleency meae Arkup can
t of the solu-

I Luguet
by the Dutch
nunities of
noonschip,
nerlands, one
untry is beDerouin
ant to develernatives,
iting the
it."

in Seattle has atly docked aris has resel, and is 4 Olympic tiver Seine. ting vacation Francisco, o has a houseboat community, the Danish firm BIG has proposed building an archipelago of floating villages connected by ferries on the bay. The Lincoln Harbor Yacht Club in Weehawken, N.J., which was devastated by Superstorm Sandy, might reinvent its marina as a houseboat haven.

"We decided to design a boat that looks and feels like Miami, is compatible with a subtropical climate, and gives the owner the freedom and flexibility to move," Derouin said.

Their ultimate goal is to create an affordable model, develop floating neighborhoods, and partner with island hotels to build eco-bungalows on surrounding waters.

"We want to design small apartments on the water for students, townhouses for families," Derouin said. "We want to create housing solutions for a broader audience. That's the vision behind Arkup."

Derouin and Luguet collaborated with Dutch firm Waterstudio and pioneering aqua-tect Koen Olthuis, who has designed a floating mosque, floating prison, floating spa, and floating resort and helped conceptualize a proposed

development of 29 private islands with lavish sustainable homes — a villa flotilla — on Maule Lake in North Miami Beach.

Nicolas

Derouin

"He is an advocate of urban planning on the water," Derouin said.

You might have noticed Arkup — which was unveiled at the Miami Boat Show in February — docked at Star Island and now Palm Island. You can see it from the MacArthur Causeway. With its floor-to-ceiling



MATIAS J. OCNER mocner@miamiherald.com

The Arkup houseboat has two air-conditioned levels. There are three bedrooms upstairs with three full and roomy bathrooms and two balconies.

windows, it looks like a large glass box.

On board, it doesn't look or feel like a boat. No rocking, for one thing. It has two air-conditioned levels, with 9-½-foot ceilings on the first floor and 8½-foot ceilings on the second. There are three bedrooms upstairs with three full and roomy bathrooms — no cramped and tilting heads on this boat — and two balconies.

There is 2,600 square feet of indoor space and 1,750 square feet of outdoor space.

Downstairs, there's an inviting living room, kitchen, dining area, two bathrooms, and a small room with a Murphy bed that could be an

office or guest quarters.
Interior design is by Brazilian company Artefacto. A sliding outdoor deck adds 500 square feet of floor space when fully extended.

At the stern, the swim platform can be lowered into the water to create a mini pool. There's a boat lift for your kayak or amphibious vehicle.

The bow deck has an outdoor kitchen and console controls for navigation and operating the 136-hp

rotating electric thrusters, which emit no noise and require no diesel fuel, and the anchoring system, which allows adjustments of each piling to level the boat.

Arkup has a maximum speed of 7 knots and a range of 20 nautical miles that can be increased with additional battery banks or a backup generator.

"We can't match the navigational capacity and speed of a yacht," Derouin said. "You couldn't cruise around the world, but you could use Arkup in the Bahamas or British Virgin Islands, for example.

"Our vessel is 75 feet long and 32 feet wide and we have the same livable space as a yacht that is 110 feet long. Arkup is for people who prioritize space and comfort over speed and range."

Arkup's steel hull and superstructure is built to withstand Category 4 hurricane winds (up to 156 mph). The 40-foot-long pilings, or spuds, enable the boat to anchor in up to 25 feet of water and elevate above the waves. The draft is five feet. It's got a 4,000-gallon freshwater tank and an equal-sized tank for waste water. The 2,400-square-foot roof is

covered with 36-kilowatt-capacity solar panels that recharge the battery.

"A motor yacht is the opposite of sustainable," Derouin said, pointing to a gigantic yacht parked behind Arkup and to passing motorboats that pause while curious passengers take a look at Arkup. "Large engines. Massive fuel consumption. Pollution. On Arkup you can live completely off the grid with no bills for energy or water. It is zero emission, carbonneutral. In this house, you don't need to rebuild your seawalls or move your air conditioner to higher ground. Compared to the costs of a waterfront home, Arkup is competitive."

Plus it's got panoramic views of the downtown skyline and dolphins swimming by the side deck.

So far, the partners have one buyer and a waiting list of potential buyers who want to take the boat for a test drive.

"We've had an amazing

response," D "Our clientel owners of pri bean islands Arkup is bette ing a beach h ple who live f time in Miam toy for the we take friends We have peo elsewhere an be their secon home. And p it as their prin docked at a n luxury produ market but o develop affor with the same

Miamians want to flee of the sea. As of coastlines shi could trade the houseboats.

"We need neurs and sci oping innovabecause climnot slowing d rouin said. "I way to live in the water."



Providing responsib and compassionate of for over 70 Years



Ask us about our FREE r Epworth Village offer

- · Warm, Friendly, Caring, Compassionate and
- Fun Activities
- Spacious "Home-Style" 1 & 2 bedroom apar
- Independent and Assisted Facilities
- 24-hour Skilled Nursing & Rehab Center
- Beautifully landscaped 10-Acre gated camp
 Conveniently located close to 826 & I-75

For more information and pricing 786.363.6948 or 786.3 www.epworthvillage