

RIGHT

Alabama's tourism economy has been supported for decades by a relatively small stretch of white-sand beaches, including Gulf State Park in Gulf Shores.

But being in the dunes can mean a lot of things. In 2004, Hurricane Ivan swept across the dunes and destroyed the original lodge, which was built in the 1970s. In 2010, tar balls washed onto the beach as oil gushed from an underwater well operated by BP after the explosion of the Deepwater Horizon drilling rig, which killed II workers. The

72 / LANDSCAPE ARCHITECTURE MAGAZINE JAN 2022 / 73



The Lodge at Gulf State Park was rebuilt as a sustainable tourism destination after a previous lodge, a popular vacation spot, was destroyed by Hurricane Ivan in 2004.

BELOW

The lodge was built into the dunes, which have migrated over the eons.

that system, the state made plans to rebuild the lodge after it was destroyed in 2004. But it didn't have a chance to fund the project until after the 2010 spill.

In 2014, a federal judge ruled that BP had acted with "gross negligence" in the lead-up to the spill,

Gulf State Park was constructed by the Civilian and in the years that followed, billions of dollars Conservation Corps in the 1930s and opened in settlements and damages began flowing to to the public in 1939. As a culture of beachgogulf communities, distributed according to the ing developed on the Gulf Coast throughout the terms of the RESTORE Act passed by Congress 20th century, the park became the crown jewel and signed by President Obama in 2012. BP of Alabama's state park system. The lodge was a settled with the U.S. Department of Justice in rare profit-making amenity within that system, 2015, agreeing to pay more than \$20 billion to and for years it held the system up, subsidizing settle environmental and economic impact claims the operating losses of the other 20 parks around throughout the gulf. But even before that settlethe state. In recognition of the role it played in ment was reached, BP had begun paying out

in 2018, as dune-grass plantings were still taking completing a master plan for enhancements hold, strong winds blew about two feet of sand throughout the state park. "Every other landscape into an area between the lobby and the restaurant, you design in, you can sort of assume that the and crews scrambled to shovel it away before the landscape is going to stay mostly where it is. But governor arrived at 8:00 a.m.

signing in a dynamic dunescape," says Kate that's part of a healthy dunescape, to have that Tooke, ASLA, a principal at Sasaki, which did the growth and change over time."

night before the ribbon-cutting at the new lodge landscape architecture work for the lodge while a dunescape is constantly changing. Dunes are growing, they're shifting, wetlands are forming, "There is something really unique about de- and swales are forming in different places, and



76 / LANDSCAPE ARCHITECTURE MAGAZINE JAN 2022 / 77

GULF STATE PARK—SEA-LEVEL RISE













MEAN HIGHER HIGH WATER

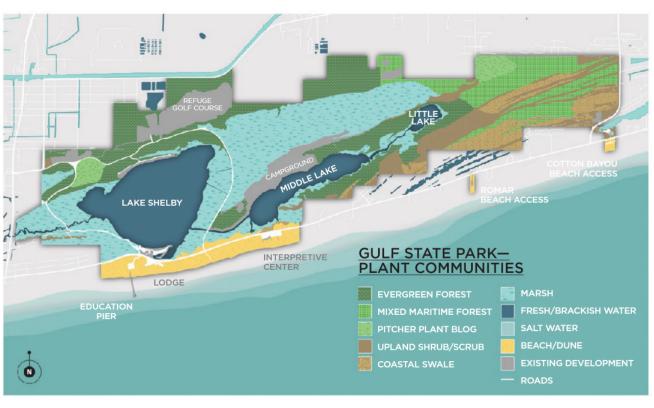
SEA-LEVEL RISE-1 FOOT

SEA-LEVEL RISE-2 FEET

SEA-LEVEL RISE-3 FEET

SEA-LEVEL RISE-4 FEET

SEA-LEVEL RISE-6 FEET



The ecology of the park is expected to evolve as the climate changes, but the lodge was sited with sea-level rise in mind.

LEFT

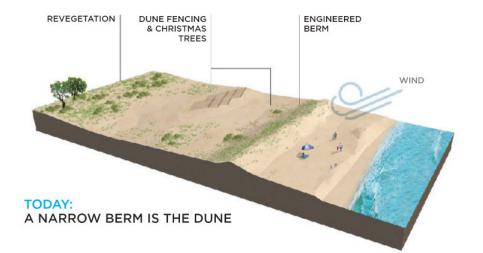
LANDSCAPE ARCHITECTURE MAGAZINE JAN 2022 / 79

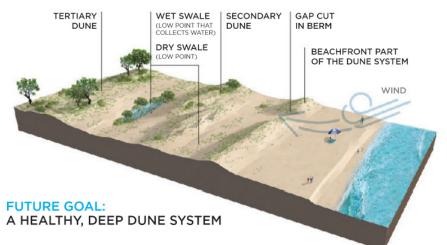
After the Deepwater Horizon oil spill in 2010, tar balls washed onto the beach in Gulf Shores, Alabama.

To manage the project, the state hired the Uniing from the American Planning Association, the versity of Alabama Center for Economic Devel- Boston Society of Landscape Architects, and the opment, which turned to Sasaki to lead a master Society of American Travel Writers. The lodge planning effort for the enhancements. Early on, has earned SITES Platinum, LEED Gold, and the groups settled on a vision: The park would be FORTIFIED Commercial certification, and it has "an international benchmark for economic and become a popular regional conference space; visits environmental sustainability demonstrating best to the beach rebounded after a slow season in the practices for outdoor recreation, education, and wake of the spill. hospitable accommodations," according to the master plan. Since then, the project has won a When I visited in May, Leavell was leading a tour handful of awards for sustainable tourism, includ- for a group from the Hoover Institution, the right-

leaning think tank based at Stanford University, the state Department of Conservation and Natural which had been hired to make a report to the Ala-Resources (DCNR), carted a group of us around bama legislature on opportunities for economic the park in a black Chevy Suburban, surveying growth. The lodge sits on the beach side of Alathe damage and recovery from Hurricane Sally, bama's Coastal Connection, a five-lane road that which hit Gulf Shores in September 2020, and passes through the built-up resorts of Gulf Shores admiring the variety of the landscape. and Orange Beach and into the Florida Panhandle II miles east. The bulk of Gulf State Park—6,000 "It's a very spectacular coastline," he said. "I think so acres of wetlands, freshwater lakes, dune ridges, many people took for granted the environment and and maritime forest—sits on the other side of the the beach, and when we had something that took highway. Chris Blankenship, the commissioner of that away for a certain amount of time, it created a

78 / LANDSCAPE ARCHITECTURE MAGAZINE JAN 2022





LEFT

Discarded Christmas trees were used to stabilize the dunes in an early phase of the project.

OPPOSITE TOP

The lodge was placed within the secondary dune, on the gulf side of the main throughway.

OPPOSITE BOTTOM

The lodge and the park were intended to become a benchmark for economic and environmental sustainability.

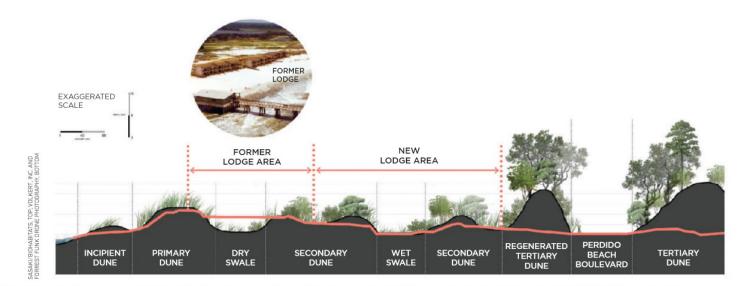
in general, but specifically for Alabama."

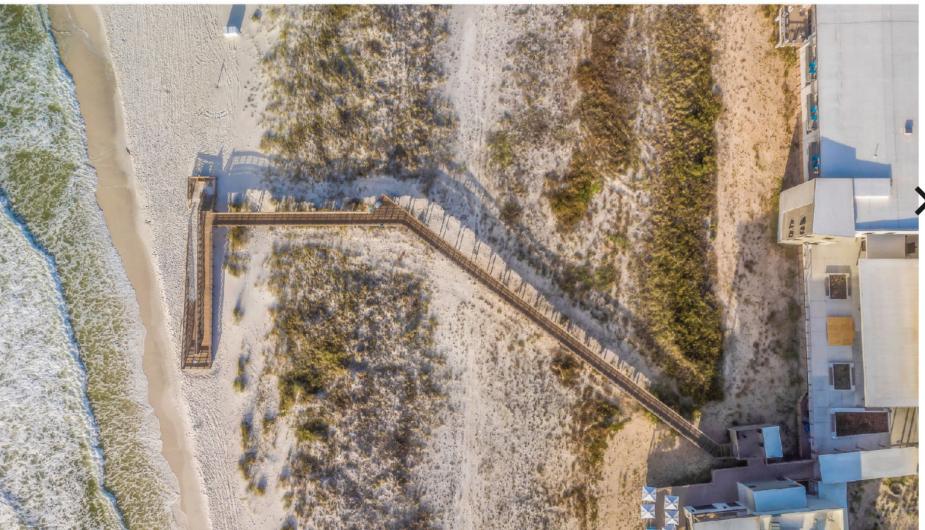
size of the settlement was so great that, just a few access to the park. years later, local news outlets were already asking whether the state's economy could "gain more Jill Allen Dixon, an associate principal and planever for tourism.

sioner in 2017, he helped settle a lawsuit filed public access and the health of the various eco-

new appreciation for what we have here—the coast Healthy Gulf, over the use of settlement funds to reconstruct the lodge. The group argued that the project had been on the state's wish list even Blankenship helped lead the state response to before the spill and that it was inappropriate to the oil spill in 2010 and told me that the biggest use NRDA funds to build a private hotel with harm to the state was economic rather than environmental. Early estimates of the spill's impacts would restore public access to the beach and suggested that the state could lose nearly \$1 bil- state park. As part of that settlement, the state lion in earnings and up to 40,000 jobs. But the committed long-term funding to maintain public

from the oil spill than it lost." In 2019, before the ner at Sasaki who grew up in Birmingham and COVID-19 pandemic, Alabama had its best year spent some family vacations at Gulf State Park as a kid, said the key to the plan was respecting the experience that locals and tourists had with When Blankenship became the DCNR commister the park, while making improvements both for by the Gulf Restoration Network, now called systems. Because of its siting, the old lodge had





Money from the BP settlement is funding shoreline stabilization and ecosystem restoration projects. such as the one at left in Bavou La Batre.

It's a large park, but the transition from a luxurious beach resort to more rugged terrain happens fast. Families were lounging by the pool at the lodge when I visited in May, and sunbathers were reclining on chaise longues in the sand outside the lobby. Across the road, we drove past a bright-blue wetland lake and a group of newly built cabins, and then rode bikes up to an old dune ridge dotted with swamps. A few years prior, Leavell told me, a woman walking in the park had had her puppy suddenly eaten by an alligator, prompting officials to post new signs warning people to be aware of alligators' presence. The woman

sultant, the team spent a lot of time figuring out she told me. "It was this whole range of experihow best to orient the building both to capture ences, but connected by a theme of connecting the views of the beach for tourists and leave space with nature, enjoying the natural environment

level rise, and expanding the number of rooms everything from solitary bird-watching to campground concerts.

THE LODGE AT GULF STATE PARK—PLANT LIST



to people."

THE MORNING AFTER the tour, I rode egret danced around in a shallow pool of water. fits into dunescape the ferry across Mobile Bay to Dauphin Is
Brown pelicans were resting on the rocks, and in plantings. land, and drove from there to Bayou La Batre, the my binoculars, through the quivering heat waves, seafood capital of Alabama. I was aiming for the I could see the production platforms of a Chevron

"There's a place to be social. There's and public improvement project funded with BP ABOVE the backcountry zone, which is re-settlement money, and the route took me along ally more of a place to escape and be Shell Belt Road, a small coastal byway strewn with quiet and enjoy nature in that way trash and debris that seemed to have been flooded too," Dixon says. "It's about trying only moments before I arrived. I parked the car to find those common themes be-next to a large sign announcing the restoration SITES Platinum tween different perceptions about project and walked through a narrow stand of certification. what connecting with nature means pines to a beach, where plugs of seagrass were newly planted in neat rows on the far side of a riprap barrier. Terms nested on the sand and a reddish Bayou La Batre City Docks, a coastal restoration refinery across the state line in Mississippi.

Sasaki completed the master plan for the park and the landscape architecture for the lodge, which achieved

BOTTOM LEFT

Subtle lighting along the path to the lodge

been "a middle finger to Mother Nature," Leavell told the local news she didn't blame the alligator. told me. But the state insisted that the new lodge The sense of a wild landscape right next to a relaxbe located within the existing building footprint. ing beach resort was something that residents and Working with Biohabitats, a Baltimore-based visitors had always cherished, Dixon said. ecological restoration and design firm, and Watershed, an Alabama-based sustainability con- "People already loved what the park had to offer," for the dunes to evolve naturally. They ended up and outdoor recreation." siting the building on the secondary dune layer, a few feet above near-term projections for sea- The master plan supported different zones for in the process.



The master plan was meant to connect areas designed for different recreational purposes.

Much of the settlement money will go to major engineering projects, with a role for landscape architects on projects that involve public access. But even if they aren't hired to work on all of those projects, landscape architects have been building out the ideas and concepts that underpin them for years, says Gena Wirth, ASLA, a design principal at SCAPE Landscape Architecture. SCAPE is currently leading a \$1 million watershed restoration plan for the Carpenter Creek and Bayou Texar watersheds in Escambia County, Florida, funded through the RESTORE Act. Like the Gulf State Park project, the watershed plan is a response to environmental conditions that

living shorelines and epic sediment diversions in were degraded well before the BP oil spill and the

settlement requires BP to pay out money every year den multiple, huge pots of money that can be applied to projects that were a long time in the ment looks small compared to the scale of the gulf making and should probably have been funded beforehand," Altman says. "We saw a similar pattern with the funding that became available in the Northeast after Hurricane Sandy. So it is As Fox said, "This isn't going to be enough money." really unfortunate that in this kind of world of

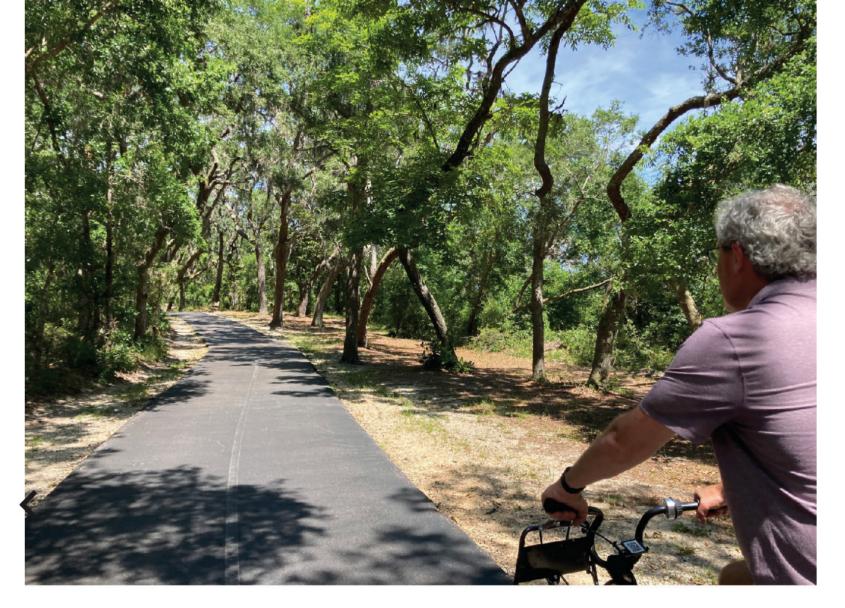
environmental disasters in the history of the as a direct result of the Deepwater Horizon spill. United States, pumping 134 million gallons of oil aftermath, researchers collected the carcasses of that was left untouched." thousands of birds. But many thousands more

The Deepwater Horizon spill was one of the worst mates that more than a million birds were killed

into the Gulf of Mexico over the course of nearly "Every aspect of the gulf ecosystem was injured

the Mississippi Delta. Those projects will help sta-settlement that's paying for it, says Lee Altman, bilize coastal areas, protect nesting habitat for birds, SCAPE's director of design management. and control freshwater flows that were threatening wetland ecosystems well before the spill. The 15-year "In response to the oil spill, there's all of a sudthrough 2031. But even the record-setting settleand the variety of degradation in coastal ecosystems, both resulting from the spill and predating it.

three months before the well was capped. In the by this oil spill," Fox told me. "There was nothing died in obscurity, sinking to the bottom of the gulf The deployment of the settlement money—through or being unable to escape from predators, said the NRDA and the RESTORE Act, as well as indi-Kara Fox, the director of Gulf Coast restoration for vidual and state claims—is off to a good start, Fox Audubon. Conservative estimates put the number says. Money is flowing to coastal restoration projof dead birds around 100,000, but Audubon estiects big and small, including many miles of new



disaster capitalism, we're only responding to these and the remains of organisms that lived millions ABOVE major disasters after they happen, and then we of years ago, squeezed into a black ooze at the remember to go back and look on our shelf for bottom of the sea. Oil has a natural presence in all these amazing projects that have already been the gulf ecosystem even in its healthiest places, developed and never been funded."

Laboratory Road, aiming for the Grand Bay Sa- Over the summer a gas pipeline exploded in the vanna Nature Preserve in Mobile County. It was a gulf, forming a fire-breathing chimera on the gravel road through a swampy pine forest, similar surface of the water, and I later read that a Coast to the Pine Barrens of New Jersey, near where I Guard official referred to the oil spreading after or congregations. live. It brought to mind the Jersey Devil and all the Deepwater Horizon disaster by the name the mythical beasts that spring from seemingly Grendel, the cursed monster from Beowulf. I felt interminable landscapes. And then it brought a measure of relief when I came across a deep to mind the very real beasts hiding around the puddle on Marine Laboratory Road and had to gulf: gators and great white sharks, dragonfish turn around. Two months later, Hurricane Ida and vampire squid, the seeds of tropical storms struck Louisiana.

but humans are perpetually unleashing its destructive potential, whether by spilling it into the After I left Bayou La Batre I drove down Marine water or burning its toxins into the atmosphere.

Matt Leavell bikes through live oaks that line an ancient dune ridge in the back half of

The American alligator is native to the Gulf Coast and is found in groups,

"IT'S ABOUT TRYING TO FIND

THOSE COMMON THEMES **BETWEEN DIFFERENT PERCEPTIONS ABOUT** WHAT CONNECTING WITH NATURE **MEANS TO**

PEOPLE." -JILL ALLEN DIXON

> **GINA FORD, FASLA,** a cofounder and principal at Agency Landscape + Planning, worked on the Gulf State Park plan at Sasaki before leaving to start her own firm. A few days before I visited the park, she sent me what she called "a little mood deck" with a few slides of her favorite spots in the park. Included was a picture of a bike path on Gulf Oak Ridge, on the far side of the park from the lodge. The path is lined with live oaks, droopy with Spanish moss. Her caption said, "mmmmmm."

After lunch at the park, Leavell and I rode up to the ridge with Wes Michaels, ASLA, a principal at the New Orleans-based firm Spackman Mossop Michaels, which worked on the enhancement project, and Rebecca Bryant, a cofounder of Watershed. At alligator in the water. the top we paused at an overlook and surveyed the expanse of pine forest, the freshwater lakes and the marsh, the faraway pedestrian bridge over Alabama's Coastal Connection, and the lodge.

When we continued, riding on a boardwalk over one of the lakes, Bryant told me that 10 years earlier she had gone with her young kids to the beach at Gulf Shores on a day when tar balls were wash- "I don't think I've ever seen one that big," Leavell said. ing up on the shore. The older one was angry, she said; the younger one thought it was a game. The top of its head was sticking out of the water, When it came to planning the enhancements to Gulf State Park, though, there was an opportunity terrible submerged form. to consider the health of the ecosystem as a whole. rather than just responding to specific harms JARED BREY IS A FREELANCE REPORTER IN PHILADELPHIA AND from the disaster.

"The way the spill itself factored into it was mostly just that realization in the community that the economy is tied to a healthy ecology," Bryant said. "Obviously that was a wake-up call. And then extending that—not just ecology that doesn't have oil on top of it, but really a healthy ecology."

We were paused at a small lake just off the bike path when Leavell asked the rest of us if we could see an

"Maybe," said Bryant, who then continued describing to me the early discussions about situating the lodge. "Because we were doing SITES, that defended the landsc—Oh, that is totally a gator."

"That is a big alligator," Michaels said.

wide and craggy, just hinting at the extent of the

A CONTRIBUTING EDITOR AT THE MAGAZINE.