

ON THE GRID

James Turrell has dedicated half his life to creating a massive—yet largely unseen—work of art in the desert. After more than four decades, the artist reveals a new master plan to the public.

BY JAY CHESHES PHOTOGRAPHY BY ALEC SOTH

N A CLOUDLESS AFTERNOON in late September, the artist James Turrell rounds the crest of a hill just below Arizona's Sunset Crater Volcano, a national monument, slowing his gray Jeep Cherokee under its cinder cone. Black shards of ancient lava are shingled across the landscape like carbonized roof tiles. "I'll show you how I first saw Roden Crater," he says, looking to the horizon and recalling the moment in 1974 that would shape his artistic career for the next 45 years.

"It was November, right before Thanksgiving," he says. Turrell, an expert pilot, had spent months by then tearing through a \$10,000 Guggenheim grantsoaring over the landscape in his 1967 Helio Courier H295, eyeing every butte and extinct volcano west of the Rockies, searching for the perfect site on which to build a monumental work of art.

getting ready to hang it all up."

And that's when he saw it.

"There's a tree right in front of us," he says. "That tree where the rock is—that's where Roden Crater will come up. There it is. See it?"

As we drive on, a gently curving slope emerges from a barren stretch of scrub brush in the distance, its soil fading black into red as it reaches a concave plateau. "So, it's out there by itself," he continues, "one of the few beautifully two-tone volcanoes without too much growth on it. That looks pretty terrific, I thought. I went and landed right out below it and then hiked up tory of art, not just art of the last decades." in it, then spent the night in it, in a sleeping bag."

Turrell, 75, has spent more than half his life sculpting the inside and outside of the 2.5-mile-wide 380,000-year-old shell of a volcano he first spied that day in 1974. He has shaped the rim to frame the sky and carved tunnels and chambers that let the cosmos in, working with astronomers to harness light from the sun, moon, stars and planets. His vast work-inprogress is inspired by archaeological sites like the Mayan pyramids in Mexico and Central America.

Now, after more than four decades, Turrell's massive project finally has a finish line. A new partnership with Arizona State University promises to bring his revised master plan to completion in the next five years, building a sprawling creative and scientific community around the crater in the process, with the ASU Foundation and Skystone Foundation (the crater's nonprofit umbrella) working together to raise the \$200 million or so still needed.

Turrell, a pioneer in manipulating natural and electric light as a medium, is one of the seminal figures of Southern California's Light and Space movement. A gregarious, voracious intellectual with an unruly white beard and wide-ranging interests in art and science, he's best known for his projection work—interior spaces filled with light that appears to inhabit physical form-and his "Skyspaces," mixing natural and electric light to alter one's per-"It was the end of the day," he recalls, "and I was ceptions of the earth's atmosphere while creating places for quiet meditation. Six years ago, his work achieved broad attention with shows simultaneously at New York's Guggenheim Museum, Houston's Museum of Fine Arts and the Los Angeles County Museum of Art (LACMA). The exhibitions also brought renewed attention to his mythic, and largely unseen, masterpiece in the desert. "[To me], an art historian interested in ancient art and modern art, it's an amazing vision," says LACMA's CEO and director, Michael Govan, who visited the crater for the first time almost 25 years ago. "It relates to the whole his-

> But while its neighbor, Sunset Crater Volcano, gets over 100,000 tourists a year, most of them en route to the Grand Canyon 70 miles due north, few visitors to the area have any idea one of the most ambitious works ever attempted by a single artist has been hiding in plain sight. Not many people have seen the place up close in the many years since Turrell first acquired Roden Crater (named for an early owner) in the late '70s. Visitors have included mostly art world insiders, who've supported the project with donations and

exhibitions. A few interlopers, though, have made it inside. "We had a group come in after Burning Man, about 12 years ago, and they graffitied the tunnel," recalls Turrell. "And a couple of women came in, totally nude."

Soon enough, curiosity seekers won't need to sneak by security. After many missed deadlines, an opening day is finally in sight. "I was so naive when I started," says Turrell. "Embarrassing to think about it. But if you really knew what it would take to do some of these things, you probably would never start on them."

Following a long hiatus, across almost a good decade of fundraising struggles that began during the last recession, work at the crater kicked into high gear three years ago, with major new backers and partners and a new master plan all clicking into place at once.

The American West is covered in monumental works by artists of Turrell's generation, a group of remarkably single-minded obsessives. Some, like Michael Heizer's mile-and-a-half-long *City* in the Nevada desert, have been in progress longer than Turrell's Roden Crater, struggling with funding and upkeep. Even the late Donald Judd's West Texas art complex at Marfa is often strapped for cash. "They have to raise their budget every year," says Turrell.

To avoid a similar uncertain fate, Turrell has lined up long-term stewards for his life's work and the 100 square miles or so of ranchland he controls as a buffer around it, partnering with ASU and LACMA (which has been involved with the crater for years) to ensure the project lives on. "There are difficulties in fundraising when you have no answer to what happens when I'm gone," he says. With a \$2 million initial planning grant, ASU spent much of 2018 formulating a long-range strategy for the site.

New urgency arrived when Turrell had a health scare in June, a heart attack right before a major exhibition opened at the Museum Frieder Burda in Baden-Baden, Germany. After the press conference announcing the show. Turrell walked out of the museum, he says, and it was "like Mike Tyson hitting me right in the chest." The hospital was just four minutes away. "So they're operating on me 12 minutes

VIEW FROM THE TOP "That looks pretty terrific, I thought," recalls Turrell of first seeing the Roden Crater (pictured above in 1973). "I landed right out below it and then hiked up in it, then spent the night in it, in a sleeping bag."

[in Arizona], I never would have made it."

The ASU Foundation is already working to raise the funds to get construction done, while the university is developing a broad academic program that will offer crater access to students and faculty beginning this spring. "James would be the first to tell you he isn't immortal," says ASU president Michael Crow. "We began talking some time ago about how we could become involved intellectually, pedagogically, and then that led to other discussions about how we might be able to then sustain the project for the next hundreds of years."

With the new infrastructure, Turrell has already sketched plans for welcoming the wider public, imagining a museum and orientation facility, lodges to rent along the crater rim, even a restaurant serving food from cookbook author Deborah Madison. Turrell, who splits his time between a home on the eastern shore of Maryland and a modest ranch house 13 miles from the crater, is sticking around Arizona more these days, newly energized to push his project toward completion. The first major addition in ages, the new \$13 million South Space, is expected to finish this spring. The space, which includes an enormous domed instrument for tracking celestial bodies, is modeled on the Jai Prakash Yantra timepiece at Jantar Mantar in Jaipur, India.

The revised master plan includes many more spaces, most 3-D modeled and priced for donors. A series of water-filled chambers are coming, fed by underground wells. One 8-foot-deep pool will reflect everv sunrise. In a light-spa complex, bathers will dive under a barrier, emerging outdoors looking out across the horizon. In the fumarole, the volcano's secondary vent, Turrell imagines a brass bath where transducers hooked to a radio telescope will broadcast the sounds of passing planets and the Milky Way underwater. In another space a visitor will sometimes be able to see his or her shadow with the light of Venus. An amphitheater is on the drawing boards too, as well as a wine cellar.

Out on his ranchland, Turrell envisions at least 10

artist residency homes dotting the landscape, each designed by a different architect. These will be the foundation for a creative retreat along the lines of Yaddo or the MacDowell Colony or Skowhegan, where Turrell spent a few weeks in the 1970s. On a ledge overlooking the crater he hopes to install facilities for ASU. "I don't want people to come here, see it once, and then you've checked it off your bucket list and can forget it," says Turrell, "so you have to have an ongoing program."

Turrell has put almost his entire artistic career in the service of this single monumental project, funneling proceeds from other work and testing concepts around the world that are ultimately destined

after the heart attack," he recalls. "If I'd had it here how that will work out here," he says. In 1991, he built his first bathing piece, *Heavy Water*, light-filled pools in France accompanied by swimwear he designed. His first amphitheater debuted in the Yucatán in 2012 with an opening performance by Philip Glass. Turrell, who likes to guide visitors to Roden Crater himself, has often struggled to explain the experience. "It's indescribable, completely immersive, designed in a way so every single piece of it engages your perception," says Steven Tepper, dean of ASU's Herberger Institute for Design and the Arts.

> It might be the altitude—Roden Crater begins around 5,000 feet above sea level—but my head's already spinning as I follow Turrell through the entrance one evening into the Sun | Moon Chamber. A black stone monolith with a circle of white marble in its center rises from a base of volcanic black silica. Low lights line the edges of the black-clad Alpha (East) Tunnel stretching up about 900 feet toward what looks like a bright orb. "As you walk up, pay attention to the sound of your voice," instructs Turrell. An enormous lens, built by the University of Arizona's Mirror Lab and the McDonald Observatory in Texas, is hidden in a recess halfway up the tunnel. It's occasionally deployed to focus sunsets, moonsets and other celestial events onto the marble "image stone," transforming the tunnel into a refractor telescope.

> Working with astronomers Larry Wasserman and the late Richard Walker. Turrell integrated precise long-range calculations into his tunnel and chamber designs. The northernmost and southernmost moons, for example, alternately hit the image stone every 9.3 years (a phenomenon known as a major lunar standstill). The tunnel, meanwhile, will be most precisely aligned with the moon in 2,000 years.

> Reaching the tunnel's midpoint, my voice goes flat. as Turrell said it would. He worked with an acoustician so that the crater is a finely honed audio and visual instrument. As we approach the East Portal at the end of the tunnel, the orb of bright sky transforms from circle to ellipse as I enter the space. A set of golden stairs with no railings rises up into the light.

> Farther in, an enormous Skyspace frames the eye of the crater. Turrell has been making variations on this same theme since the early 1970s, when he started cutting holes in the walls and roof of his studio at the Mendota Hotel in Santa Monica, California, turning the sky itself into a work of art. He has since produced dozens of Skyspaces around the world, nearly 100 of them in 21 states and 29 countries. Though many are private collector commissions, just as many are publicly accessible, purchased by museums and universities. Late this past summer, he opened a ski-in Skyspace in the Austrian Alps for a local arts association. The Crater's Eye, among his largest Skyspaces, is an acoustic marvel.

Our tour concludes outside at sunset, in the Crater Bowl, where four stone plinths encircle the Crater's Eye. I lie down on one, as Turrell instructs, the blood rushing to my head as it rests on a stone pillow, angled below my feet. From my upside-down vantage point, the sky seems to fish-eye, curved up from the earth, offering a 360-degree view of the horizon, across the Painted Desert, the Grand Canyon's rim for the crater. "I often do pieces at in the distance as day fades into night. To achieve museums that I'm trying out to see this visual effect, Turrell moved more than a million

cubic yards of dirt and stone from the bowl, bringing an experience that pilots know from flying down to earth: a "phenomenon where we perceive the sky as a closely fitted vault covering us from horizon to horizon rather than a limitless void extending into space," as Turrell has described it.

To understand aviation is to have a deeper grasp of Turrell and his work. Early on he supported his art with crop-dusting, delivering airmail and restoring old planes, a hobby he still enjoys.

And Turrell's work at the crater has been as much about keeping out light as bringing it in. He lobbied the county to pass an extra-stringent dark skies ordinance that includes a ban on large signage. "Now you see why I wanted to have no lights," he says, standing on the edge of the rim, night rising in the distance, the sky striped shades of black and blue.

To secure land around the crater nearly as far as the eye can see, Turrell raised funds by selling prints, gets more involved, and it gets more expensive." drawings, models and other works of art. "We're Even with Roden Crater consuming so much time and mental energy, Turrell's other work hasn't definitely not in the moneymaking business; we're in the money-spending business in Turrell world," says slowed. Demand has increased, in fact, as whispered news of his close call circulates. After the heart his longtime gallerist Marc Glimcher of Pace in New attack, Turrell says, "many people who were perhaps York. Turrell has been buying plots 10 to 40 acres at a time, amassing a buffer against development, snapthinking of getting my work or doing something are now calling up and demanding to get it." ping up fallow tracts from investors who were duped in a big land fraud in the 1950s. Two years ago he sold While he discusses new commissions at his ranch SKY HIGH "Every single piece of it engages your his apartment in New York's Gramercy Park, using house, a call comes in from a prospective client repreperception," says ASU's Steven Tepper of the crater; the proceeds to buy an additional 16,000 acres, which senting a museum in Vermont. "What would you like above, the East Portal (2018). he closed on this fall. This new land grab will extend to do?" Turrell asks. "Have you seen any of the outthe cattle-ranching operation that also helps keep door works? I think the best is to go see some things, "He's Santa Claus with a bag of aesthetic experiences Roden Crater going. Turrell's Walking Cane Ranch and then come visit me here." Turrell gets a steady for all the girls and boys," says Glimcher. supplies prime steaks to purveyors of top restaustream of inquiries like this. Most never lead to any-For Turrell, though, Roden Crater remains the rants like Keens Steakhouse in New York. thing. "I would say there are 100 requests to every

reason for everything. With ASU and LACMA on The seeds of the crater project go back to the beginone that can really be done," says Glimcher. board, that dream, long delayed, looks unlikely to ning of Turrell's artistic career, to the early '60s when, Turrell's current pipeline includes an archiend up one more incomplete artist's folly. The unias a conscientious objector, he flew reconnaissance tectural installation at Denmark's ARoS Aarhus versity plans to fully integrate the project into its Kunstmuseum as well as four new Skyspaces missions over Southeast Asia for the CIA's Civil Air academic DNA, beginning with a pilot program this Transport unit, soaring over the temple compounds in Mexico and another in a public park for the spring involving its art and design school along with of Borobudur and Angkor Wat. (It's a period he pre-Philadelphia Museum of Art. More Skyspaces are new schools of sustainability, earth and space exploplanned for the addition to the Fondation Beyeler in fers not to talk much about.) Those ancient sites, and ration and social transformation. "That crater, that others he later visited in Mexico, India and the British Basel, Switzerland, and in four new buildings underproject, touches on almost every discipline at the Isles, formed the basis for the big project he dreamed way from architects Herzog & de Meuron. university," says Tepper. "We see it as an extraorof when he took to the skies fueled by that \$10,000 And Mass MoCA, the Massachusetts museum dinary learning object that we're prepared to build Guggenheim grant, which Turrell used specifically for that opened a semipermanent Turrell retrospective hundreds of learning opportunities around." the crater hunt (most of it was spent on airplane fuel in 2017, will soon welcome two more major works, a Skyspace in an industrial water tank and a massive spring, interacting with the crater and partly work-

Five interdisciplinary field labs will debut this and lodging). Three years after he found Roden Crater, he contopographical model of Roden Crater showing the ing out of a new building in nearby Flagstaff that vinced the rancher who owned it to sell. Funding for planned work to come. "Unless you're at the crater, it's will house Turrell's Roden Crater archive, studio and the first work there came from art patron Patrick so difficult to get your mind around the scale and how model shop. And Govan, who is also chairman of the Lannan's foundation, from Italian Count Giuseppe it works," says Mass MoCA director Joseph Thompson. Skystone Foundation board, is developing an online Panza di Biumo (another early Turrell supporter) and "I know [James has] been frustrated by that." course with Turrell that will be accessible to the wider from the newly emerging Dia Art Foundation. The Turrell, who was raised conservative Quaker in world through ASU's EdPlus online degree platform. crater's ambient-lit chambers are all building on con-Pasadena, California, is also reviving his Lapsed "Part of the inspiration for Roden Crater was cepts he first developed as a young artist carving up Quaker Ware, a line of black basalt dishware he the Space Age of the '60s and James's delightfully the old Mendota Hotel, which he moved into in 1966 introduced in the 1990s. An expanded collection, perverse notion that one could bring the cosmos to after graduating from Pomona College with a degree produced in partnership with Irish potter Nicholas earth," says Govan. "So there's a beautiful poetry in in perceptual psychology. He initially paid \$125 a Mosse, debuted at the FOG Design+Art fair in San thinking about Roden Crater as being able to inspire month for the former restaurant and pharmacy spaces Francisco this winter. Turrell and Mosse have also scientists to think differently about the cosmos." on the ground floor. He eventually took over most of partnered with an Irish distillery to produce their But Turrell's monument to light, his lifelong the building, slicing holes in the walls and ceiling, own Lapsed Quaker whiskey and gin-although it obsession, is also a monument to life. "Light itself turning much of the structure into an immersive art will be a while still before those are ready to drink. is amazing," he says. "There is this strange truth in installation. "That was the kind of work I'm doing at Turrell is also working on a collaboration with cryslight, and I've been very interested in that. And we the crater, where things from the outside come in and tal maker Lalique that will include the artist's own have a very amazing relationship to it. We drink make a piece," he recalls. "There I did it with the urban cologne and perfume, which will be produced by light through the skin and create vitamin D. Light is landscape of light at night. That was an important the company using wild purple sage from his ranch. actually food." •



place for me, where I really did a lot of the things that sort of fueled the tank for quite a while."

He left the Mendota to begin his search for the crater after developers bought the hotel in 1974.

Turrell's first marriage, to a harpist, dissolved a few years later, and in the early '80s, he moved full time to the crater. (He's now married to artist Kyung-Lim Lee Turrell and has six grown kids from previous relationships.) For two years he lived in isolation in an octagon-shaped house on the fumarole there. "That's when I got most of the ideas and designs of it done," he says. By 1983 the initial master plans were complete.

Turrell spent the first decade consolidating control over the land around the site. Work on the tunnels and chambers wouldn't begin until the 1990s. The plans have become much more elaborate as the decades have dragged on. "The lesson here is, Get the money to an artist soon," says Turrell. "If you wait it

