# NATIONAL CEUCDYDHIC

"Look at that picture over there! Here's the Earth coming up. Wow, is that pretty!" • "Hey, don't take that; it's not scheduled." • [Laughter] "You got a color film, Jim?" • "Hand me that roll of color quick, will you." • "Oh man, that's great!" • "Hurry. Quick." • "Well, I think we missed it." • "Hey, I got it right here!" • "Let—let me get it out this window. It's a lot clearer." • "Bill, I got it framed; it's very clear right here. You got it?" • "Yes." • "Take several of them! Here, give it to me." • "Wait a minute. Let's get the right setting. Here now, just calm down." • "Calm down, Lovell." • "Well, I got it ri—oh, that's a beautiful shot." Excerpts from a conversation among Apollo 8 astronauts Frank Borman, James Lovell, and William Anders, December 1968

The Moon and Beyond: A New Era of Space Trave



From the dawn of space exploration to current and ongoing missions, there's only one place where rockets launch and imagination soars to the stars. Where dreamers dream big, and heroes take flight. Start your journey into space this summer at Kennedy Space Center Visitor Complex.

There's no better way to celebrate the 50th anniversary of the launch of the Apollo 11 mission to the Moon than by visiting the Apollo/Saturn V Center. Here you'll get an up close look at the moments and machines that helped America win the race to the Moon. Visitors can walk beneath the giant Saturn V rocket (the largest rocket ever flown) and view legendary artifacts in the Treasures Gallery.

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blazed trails on our journey to the stars. Discover the personal qualities that formed the heroes of early space exploration, then walk among the giants of space travel that took us there in the Rocket Garden.

Go behind the gates of NASA and gain special access to America's spaceport on the Kennedy Space Center Bus Tour, where you'll get an exclusive look at NASA's spaceflight operations, including the launchpad facilities used by NASA, SpaceX, ULA, and others. The future awaits at Kennedy Space Center Visitor Complex. All you need to do is Look Up.







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Astronaut William Anders took the image now known as "Earthrise" during the Apollo 8 lunar orbit mission. A duplicate of Anders's film is stored at Houston's Johnson Space Center, where this frame was photographed. DAN WINTERS

PROOF

EMBARK

EXPLORE



THE BIG IDEA

Let's Send Only Women to Space If females have the right stuff for long space voyages, why send men at all? BY NADIA DRAKE



PLANET OR PLASTIC?

# Straw Poll

To take plastic drinking straws out of the waste stream, consider metal, silicone-even bamboo. BY SARAH GIBBENS

What Makes Words Funny Dandelion in Flight Sleep's Repairs



GETTING THERE

A Salty Sea Island Studying one spot in the Dead Sea involved flying a drone and taking a briny swim. BY NINA STROCHLIC

DECODER

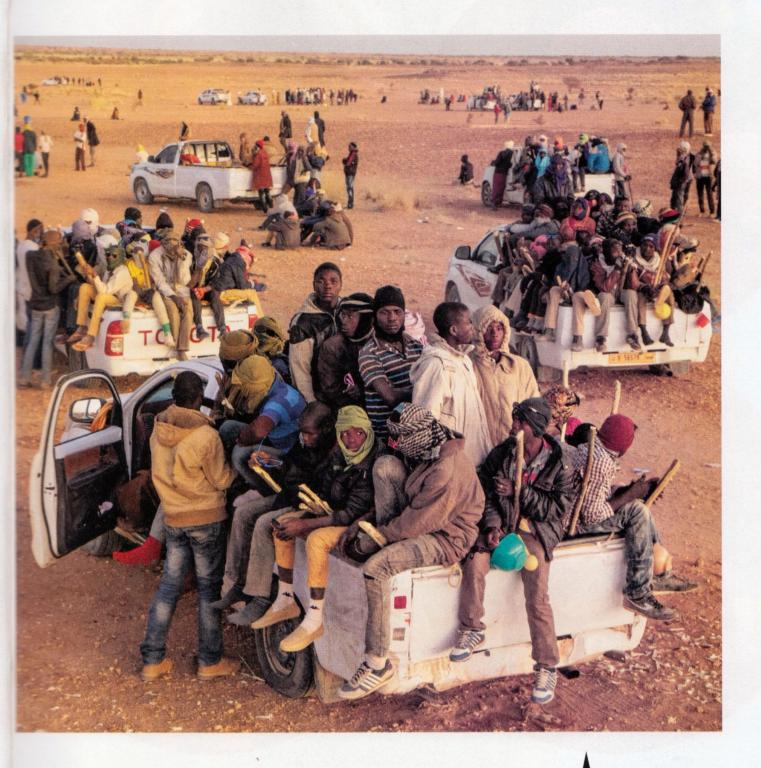
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Inventive prototypes of toilets might lead to low-cost, sanitary facilities that can work around the world. BY MANUEL CANALES

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# Spirit Worlds

What remains in a glass of single malt Scotch whisky after the liquid is gone? A surreal collection of otherworldly landscapes-if you know how to look. PHOTOGRAPHS BY ERNIE BUTTON



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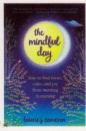
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# Apollo: Missions to the Moon takes viewers along

To mark the 50th anniversary of the first crewed lunar landing, National Geographic brings NASA's Apollo space program to life with the two-hour documentary *Apollo: Missions to the Moon*. The film combines archival TV footage, never before heard radio broadcasts, home movies, NASA film, and Mission Control audio to create a riveting, you-are-there experience. Kicking off a multi-night television event, *Apollo* will air at 9/8c on July 7 on National Geographic.



## BOOKS

# Experience The Mindful Day

Meditation expert Laurie Cameron offers practical advice on integrating mindfulness into busy lives. The Mindful Day, now in paperback, is available wherever books are sold and at shopng.com/books.

### TELEVISION

# A return visit to Yellowstone Live

This four-night event follows cinematographers in real time as they explore an iconic American wilderness and showcase its denizens. Season two of Yellowstone Live will air June 23-26 at 9/8c, on Nat Geo WILD and National Geographic.

# NAT GEO WILD

# Howie Mandel hosts wacky animal series

Take some of the funniest animal videos on Instagram, add a veteran comic to narrate—and you've got season two of Howie Mandel's Animals Doing Things. Episodes air Saturday nights at 9 and 9:30 starting June 15 on Nat Geo WILD.

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# FEATURES



of the Mooth of th 'THE COLD, NUTRIENT-RICH FORESTS THAT HARBOR ONE OF THE MOST MAGNIFICENT MARINE ECOSYSTEMS ON THE PLANET.'

# → COUNTDOWN TO A NEW ERA



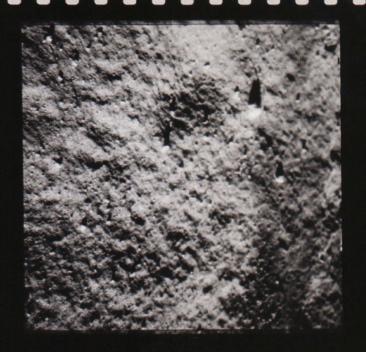
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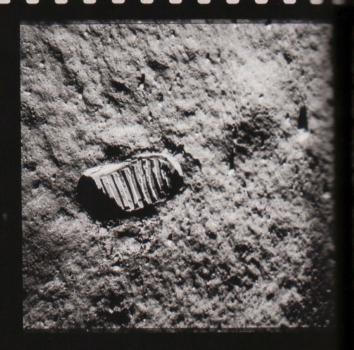


Astronaut Harrison Schmitt bounds toward the lunar rover during the Apollo 17 mission in December 1972, the last time humans set foot on the moon.

**EDITOR'S NOTE:** This image is part of a panorama that NASA created from 18 photos. To show how the lunar landscape looked to the astronauts, NASA removed lens flare from sunlight by blacking out the sky.

NASA/LUNAR AND PLANETARY INSTITUTE

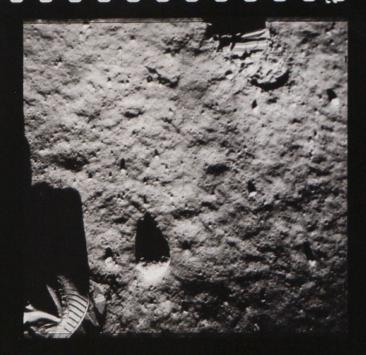




ifty years ago this month, astronauts walked on the moon for the first time. Apollo 11's success—just 66 years after the Wright brothers' first flight—showcased humankind's moxie and ingenuity. Now the moon is in our sights again, for a generation that will test where science meets profit.







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WHAT'S NEXT