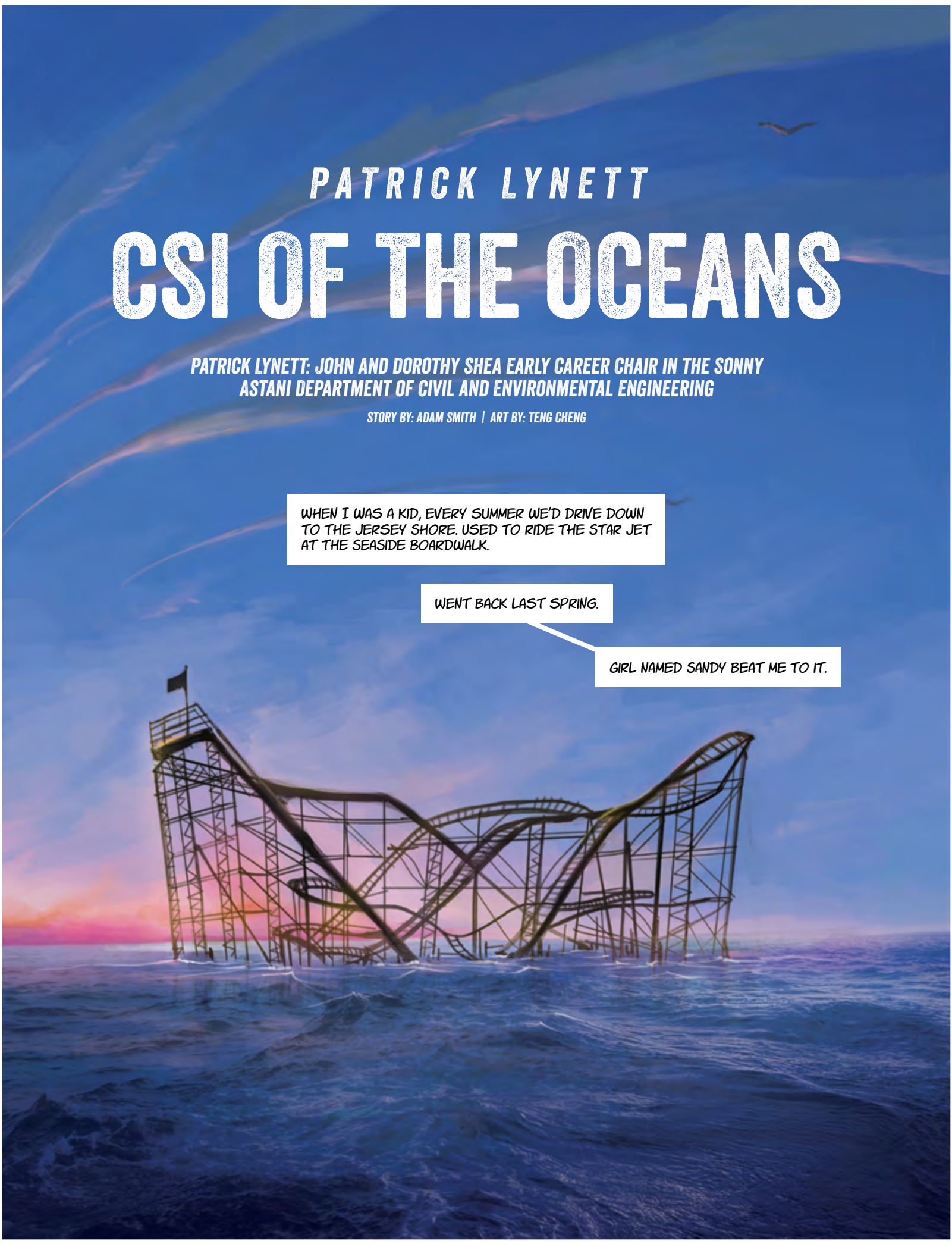




THE HOLLYWOOD ISSUE

L.A. MAYOR EDITORIAL: I ♥ ENGINEERS | MACGYVER CREATOR SPEAKS OUT
"AVATAR" TECHNOLOGY AND HOLOCAUST SURVIVORS | USC VITERBI + SILICON VALLEY + HOLLYWOOD
NEXT GREAT FILM / TV SHOW ABOUT ENGINEERS | MEASURING THE IMPACT OF MEDIA
HAO LI: 'TOP INNOVATOR' IN ANIMATION | FASTER VIDEO DOWNLOADS | TIMELINE: FROM Q TO IRON MAN





PATRICK LYNETT CSI OF THE OCEANS

**PATRICK LYNETT: JOHN AND DOROTHY SHEA EARLY CAREER CHAIR IN THE SONNY
ASTANI DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING**

STORY BY: ADAM SMITH | ART BY: TENG CHENG

WHEN I WAS A KID, EVERY SUMMER WE'D DRIVE DOWN
TO THE JERSEY SHORE. USED TO RIDE THE STAR JET
AT THE SEASIDE BOARDWALK.

WENT BACK LAST SPRING.

GIRL NAMED SANDY BEAT ME TO IT.



I'M LIKE THE CSI OF EXTREME EVENTS. IF THERE'S A
HURRICANE OR A TSUNAMI, I'M THERE.

I HOP ON AN AIRPLANE WITH A TEAM OF RESEARCHERS.
GRAB MY FIELD CLOTHES, MY SURVEY RODS AND A SIDE
OF BEEF JERKY.

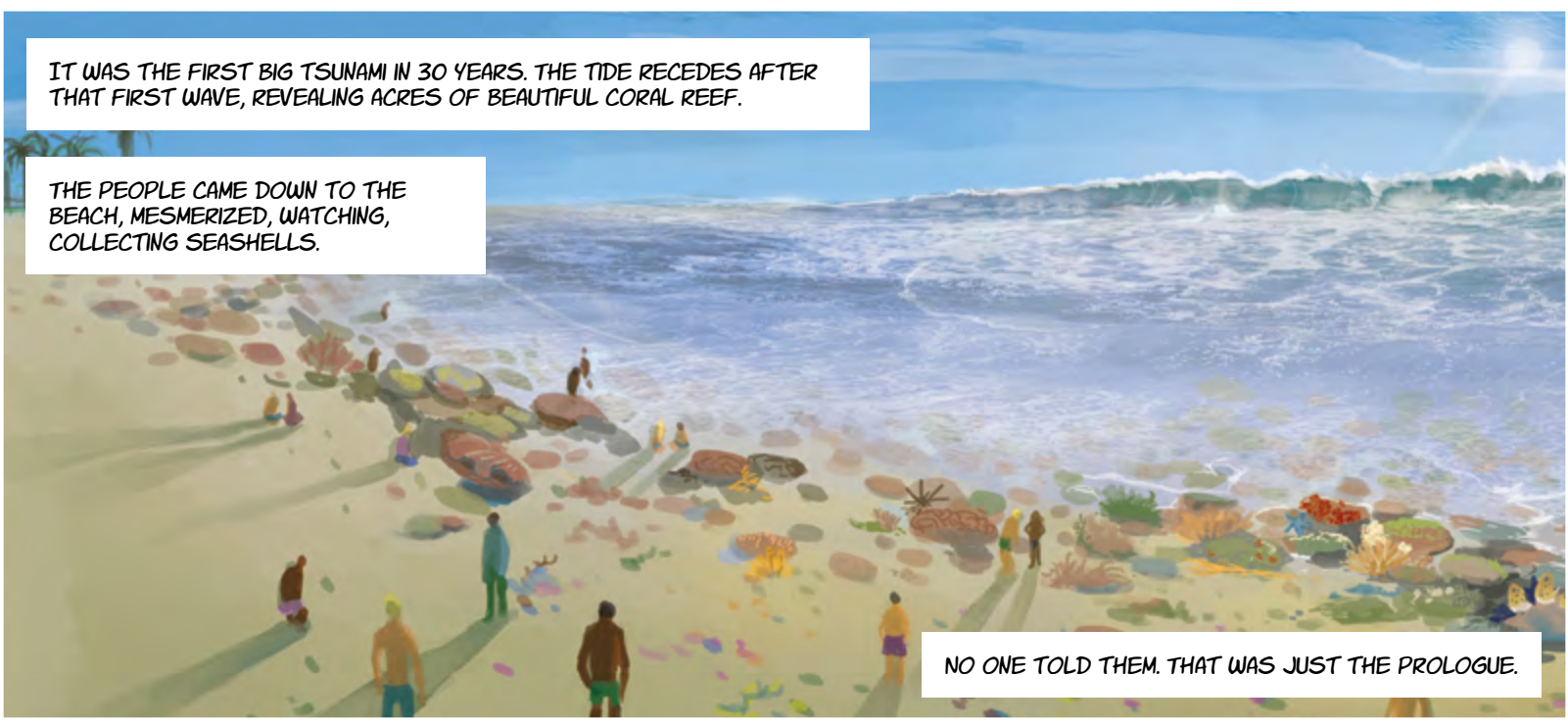
EVERY DISASTER SITE TELLS A STORY—IF YOU ONLY
KNOW WHERE TO LOOK.



SRI LANKA, 2004. I'D NEVER SEEN
DEVASTATION LIKE THIS. NOT
EVEN IN PICTURES.

ENTIRE VILLAGES WIPED OUT.
250,000 PEOPLE DEAD.

THE REAL TRAGEDY: SO MUCH OF
IT WAS PREVENTABLE.



IT WAS THE FIRST BIG TSUNAMI IN 30 YEARS. THE TIDE RECEDES AFTER
THAT FIRST WAVE, REVEALING ACRES OF BEAUTIFUL CORAL REEF.

THE PEOPLE CAME DOWN TO THE
BEACH, MESMERIZED, WATCHING,
COLLECTING SEASHELLS.

NO ONE TOLD THEM. THAT WAS JUST THE PROLOGUE.

THERE'S A CLUSTER OF EXTREME EVENTS HAPPENING RIGHT NOW. SOME THINGS WE WON'T SEE AGAIN FOR GENERATIONS.

WE HAVE A WINDOW OF 10 YEARS. TO LEARN. TO PLAN. TO REMEMBER.

AFTER THAT, WE FORGET.

ABOUT THE INDIAN OCEAN TSUNAMI (2004).

ABOUT KATRINA (2005).

ABOUT CHILE (2010).

ABOUT SANDY (2012).

ABOUT JAPAN (2011).

MY FAVORITE CHARACTER IN THE LORD OF THE RINGS IS ARAGORN. THE RANGER.

HE'S THE ANONYMOUS GUY WHO KEEPS THE SHIRE SAFE. THE SHIELD IN THE DARKNESS.

MY WEAPONS ARE COMPUTER CODE. COULD Wave. WITH IT, I CAN DESCRIBE THINGS NO HUMAN CAN IMAGINE.

I TAKE THIS CODE AND I RUN IT ON THE USC SUPERCOMPUTER—FIFTH FASTEST IN THE WORLD.

I CAN SIMULATE DOWN TO A MATTER OF FEET HOW A TSUNAMI OFF ALASKA MOVES ACROSS THE ENTIRE PACIFIC OCEAN. WHAT HAPPENS WHEN A 30-FOOT TSUNAMI WITH A FORCE OF A 300 MPH TORNADO COMES SCREAMING INTO THE PORT OF LOS ANGELES.

I WAS IN NEW ORLEANS AFTER KATRINA. PART OF THE FORENSICS TEAM—I HAD TO RE-CREATE THE EFFECTS OF A MONSTER STORM, FIND OUT WHY THE LEVIES FAILED.

THEY GAVE ME A MEDAL AND BUILT A WALL.

TODAY, THE LAKE BORGNE SURGE BARRIER IS THE GREAT WALL OF DEFENSE FOR THE CRESCENT CITY.

I CAN TELL ARCHITECTS AND CITY PLANNERS HOW TO SAVE LIVES.



WHY THIS ROW OF BUILDINGS STILL STANDS. AND WHY FOUR ROWS BACK, THESE ARE UTTERLY DESTROYED.

1700 AD. THE INDIANS TOLD STORIES ABOUT THE OCEAN RISING LIKE A MONSTER AND DEVOURING THE LAND.



WE'VE FOUND EVIDENCE TODAY OF AN EARTHQUAKE AND GIANT WAVES THAT SEEMED INCONCEIVABLE. UNTIL JAPAN, THAT IS. UNTIL FUKUSHIMA.

UNLIKE ARAGORN, MY OPPONENT IS NOT EVIL. IT'S HARD TO FIGHT SOMETHING THAT COVERS 3/4 OF YOUR PLANET.



BUT OUR WINDOW IS CLOSING. AND I'VE GOT WORK TO DO.