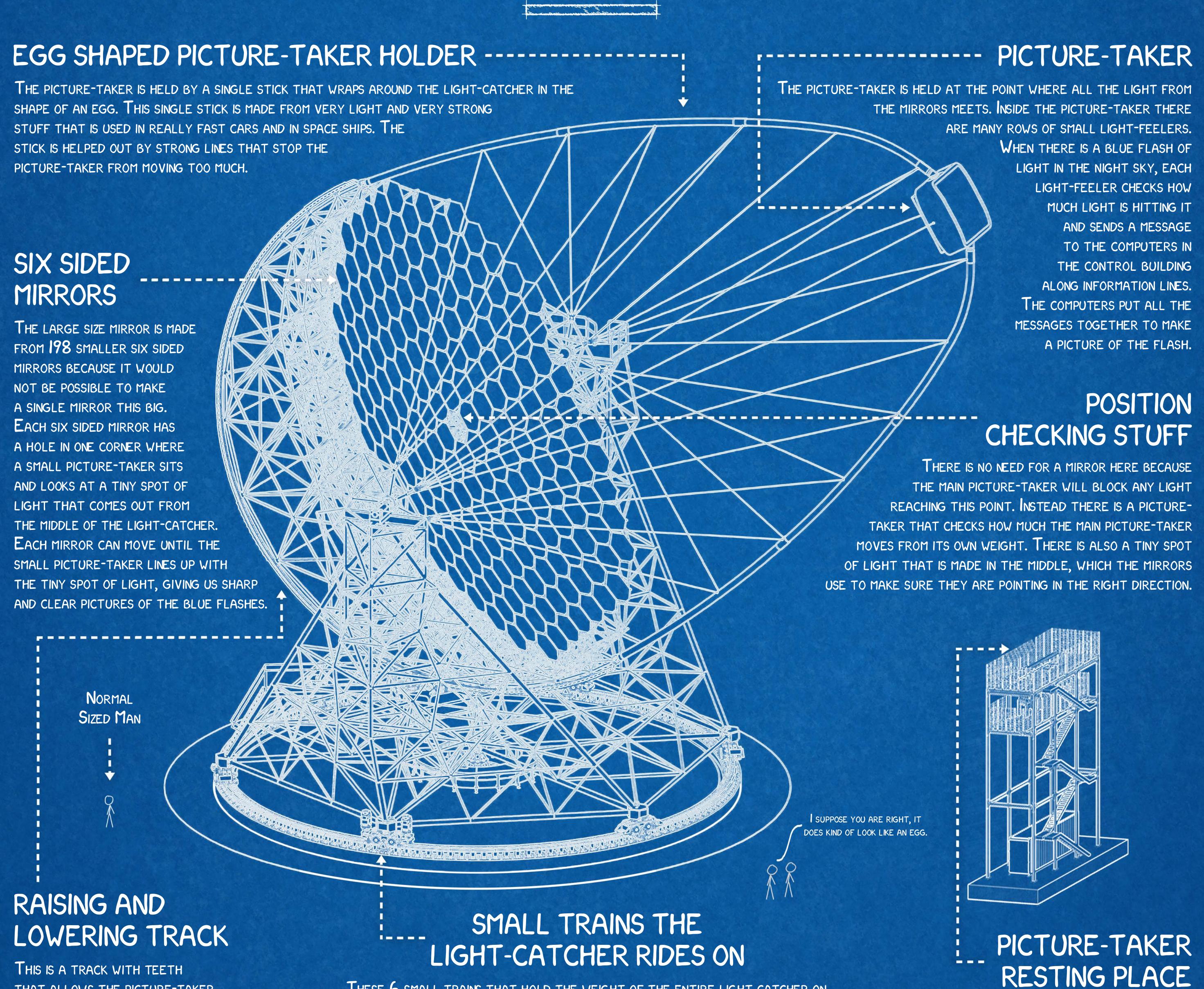
A LARGE SIZE LIGHT-CATCHER EXPLAINED WITH SIMPLE WORDS

When light carrying a lot of power from space hits the air around the Earth, a special blue flash of light is made that is gathered BY THESE LIGHT-CATCHERS. MIRRORS POINT THIS LIGHT TOWARDS A PICTURE-TAKER THAT CAN TAKE A PICTURE OF THIS FLASH. BY LOOKING AT HOW BRIGHT THE FLASH IS, WE CAN WORK OUT HOW MUCH POWER THE LIGHT FROM SPACE HAD, AND BY USING MORE THAN ONE LIGHT-CATCHER TO TAKE A PICTURE OF THE FLASH, WE CAN WORK OUT WHERE THE SPACE LIGHT WITH LOTS OF POWER CAME FROM.

THIS LIGHT-CATCHER HAS A LARGE SIZE MIRROR FOR CATCHING SMALL SIZE FLASHES.



HIS IS A TRACK WITH TEETH THAT ALLOWS THE PICTURE-TAKER TO BE RAISED AND LOWERED. 2 MACHINES UNDER THE LIGHT-CATCHER PULL ON THE TEETH SO THAT THE TRACK MOVES THROUGH THEM, IF THE MACHINES FAIL, THERE IS AN EXTRA STOPPER WHICH STOPS THE PICTURE-TAKER FROM SLAMMING INTO THE GROUND.

THESE 6 SMALL TRAINS THAT HOLD THE WEIGHT OF THE ENTIRE LIGHT CATCHER ON THEM. THE TRAINS CAN MOVE AROUND IN A CIRCLE ON THE TRAIN TRACKS BELOW BECAUSE 4 OF THE TRAINS HAVE ENGINES TO TURN THE LIGHT-CATCHER. THESE ENGINES HAVE TO HAVE A LOT OF POWER TO MOVE SUCH A HEAVY LIGHT-CATCHER AND THEY MUST ALSO BE QUITE QUICK TO GET THE LIGHT-CATCHER TO MOVE INTO POSITION QUICKLY. CLIMBING TO THE TOP FLOOR OF THIS BUILDING WITHOUT WALLS.

A GROUP OF OVER 1,200 PEOPLE (MOSTLY TEACHERS AT SCHOOLS FOR GROWN UPS) FROM 32 COUNTRIES WHO WANT TO SEE LIGHT FROM SPACE WITH A LOT OF POWER. THEY ARE BUILDING GROUPS OF LIGHT-CATCHERS IN BOTH THE NORTH AND THE SOUTH OF THE EARTH AT VERY DARK PLACES SO IT IS EASIER TO SEE THE SMALL BLUE FLASHES IN THE NIGHT SKY.



cherenkov telescope array

UK

TITLE: LARGE SIZE TELESCOPE **AUTHOR:** JAMES THOMAS WILSON INSPIRATION: RANDALL MUNROE 10/03/16 DATE:

WHEN THE LIGHT-CATCHER IS NOT BEING USED

(WHEN THE SUN OR FULL MOON IS OUT), THE PICTURE-

TAKER WILL SIT ON TOP OF HERE. WORKERS THAT NEED

TO LOOK AFTER PICTURE-TAKER OR FIX IT CAN REACH IT BY