

**NO DREAM IS
BEYOND REACH**



FLUTE

FLUIDIC TELESCOPE EXPERIMENT

FLUTE – FLUIDIC TELESCOPE EXPERIMENT: CREATING A LENS USING A VISCOUS FLUID IN MICROGRAVITY CONDITIONS

THE RAMON FOUNDATION AND THE ISRAEL SPACE AGENCY AT THE MINISTRY OF INNOVATION, SCIENCE AND TECHNOLOGY ARE SENDING THE SECOND ISRAELI TO SPACE, EYTAN STIBBE, ON THE RAKIA MISSION ON THE INTERNATIONAL SPACE STATION. EYTAN WILL BE LAUNCHED INTO SPACE ALONG WITH OVER 30 SCIENTIFIC EXPERIMENTS TO BE CONDUCTED THERE. THE MISSION WILL ENABLE ISRAELI ENTREPRENEURS, SCIENTISTS, AND RESEARCHERS TO DRIVE INNOVATION

THE FLUIDIC TELESCOPE EXPERIMENT IS A JOINT PROJECT BETWEEN THE TECHNION'S FACULTY OF MECHANICAL ENGINEERING AND NASA. ITS GOAL IS TO ENABLE THE FABRICATION OF OPTICAL COMPONENTS IN SPACE FOR THE FIRST TIME EVER, USING THE PHYSICS OF FLUIDS IN MICROGRAVITY.

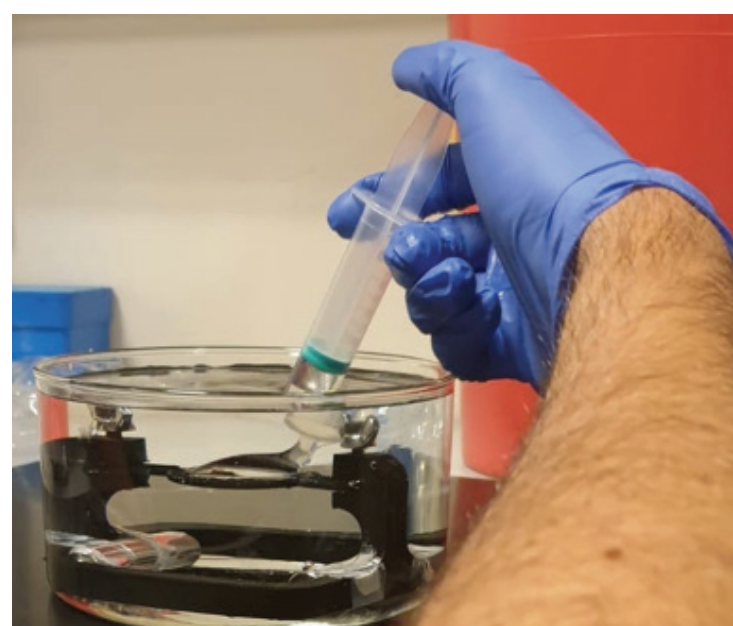
THE EXPERIMENT'S CONTRIBUTION

ON EARTH – THE EXPERIMENT AIMS TO DEMONSTRATE HOW FLUIDS CAN BE FORMED INTO THE REQUIRED SHAPES FOR OPTICAL COMPONENTS, WITHOUT THE NEED FOR COMPLEX MECHANICAL PROCESSES.

IN SPACE – THE PROJECT'S SUCCESS WILL REVOLUTIONIZE MANUFACTURING IN SPACE, AS WELL AS ASTRONOMY, AND WILL PAVE THE WAY FOR THE CONSTRUCTION OF SPACE TELESCOPES WITH DIAMETERS IN THE DOZENS OF METERS.



**EYTAN STIBBE PRACTICES
PREPARING A LENS**



**HOW THE LENS IS
MADE**



**EYTAN STIBBE WITH THE
LIQUID LENS #TECHNION**



TO THE RAKIA WEBSITE



TO THE VIDEO

EYTAN STIBBE WILL PERFORM THE FLUIDIC TELESCOPE EXPERIMENT IN MARCH. THE EXPERIMENT WILL BE BROADCAST THROUGH THE WEBSITE. MAKE SURE TO WATCH THE BROADCAST!