

CONTEST THEME

EINSTEIN'S THEORY  
OF RELATIVITY

20  
19

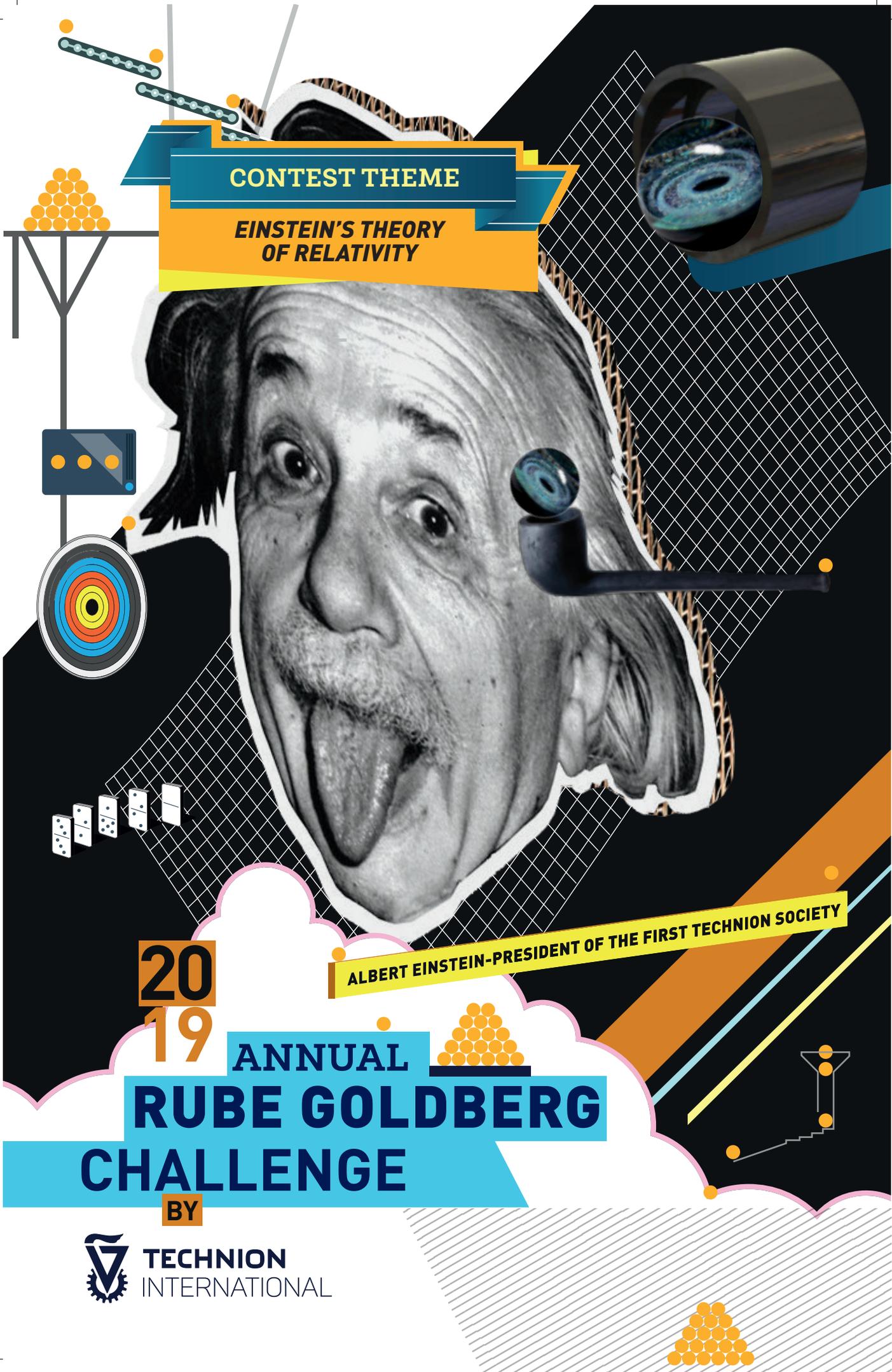
ANNUAL  
RUBE GOLDBERG  
CHALLENGE

BY



TECHNION  
INTERNATIONAL

ALBERT EINSTEIN-PRESIDENT OF THE FIRST TECHNION SOCIETY



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# ANNUAL RUBE GOLDBERG CHALLENGE

BY



*"The present theory of relativity is based on a division of physical reality into a metric field (gravitation) on the one hand and into an electromagnetic field and matter on the other hand. In reality space will probably be of a uniform character and the present theory will be valid only as a limiting case."* - Albert Einstein, 1945

Did you know that in 1919, during a total solar eclipse, Sir Arthur Eddington performed the first experimental test of Albert Einstein's general theory of relativity? The findings made Einstein a celebrity overnight and precipitated the eventual triumph of general relativity over classical Newtonian physics.

Einstein's theory marks an important milestone in the history of physics and that is why we chose it as the theme for our 2019 Annual Rube Goldberg Challenge.

Technion – Israel Institute of Technology, one of the leading institutes of science and engineering in the world, is a major source of the innovation and brainpower that drives the Israeli economy. Technion is dedicated to the creation of knowledge and the development of human capital and leadership, for the advancement of the State of Israel and all humanity.

### About the Contest

Technion invites high school students (grade 9-12) from around the world, to the 4th Annual Rube Goldberg Machine contest, to create EINSTEIN'S THEORY OF RELATIVITY themed Rube Goldberg machine.

### Students are to use

out-of-the-box problem solving skills and teamwork, to build a multi-step, chain reaction machine, and creatively incorporate Einstein's theory of relativity themed elements into their machine.



Deadline for registration: December 1st 2018

Deadline for submission: May 1st 2019

### Machine Goal

The result of the machine must reveal the theme.

**Mechanical Element:** Your Rube Goldberg Machine should be comprised of everyday, recyclable items.

### Judging

A panel of judges representing the Technion will select the winning videos, based on teams' creative expression of the theme.

For more information, feel free to contact us at [apply@int.technion.ac.il](mailto:apply@int.technion.ac.il)

### Recognition and Prizes

Winning videos will be shared on the Technion YouTube channel. Winning teams will be awarded the following prizes:



- 1 **First place** - One year full scholarship towards studying at the Technion
- 2 **Second place** - 3D printer for the school
- 3 **Third place** - Arduino set



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