

**Bronisław Jerzy PABICH**  
Stowarzyszenie Nauczycieli Matematyki

## **A SMALL STUDY OF PLANE GEOMETRY LEADING TO THE DISCOVERY OF THE GOLDEN ELLIPSE**

It all started with the usual geometry lesson in secondary Technical School of in 2005. Students were asked to construct a square enclosed in a triangle so that two of its vertices lie on two adjacent sides of a triangle and two from it.

This is a very easy task and does not require any comment. It turns out that the analogy of this task in a different situation leads to the discovery of the entire family of solutions of this task and also to the discovery of the golden ellipse