

High School Students' Evening

Tuesday, November 25th, 2014

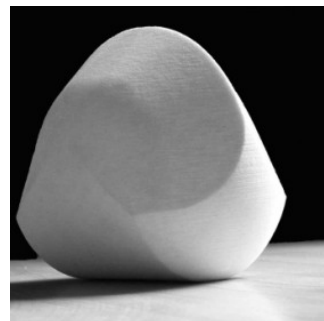
7 pm – 9 pm, **FREE ENTRANCE**

Fields Institute for Research in Mathematics, Room 230, 222 College Street, Toronto

7 pm – 8 pm

Mono-monostatic Bodies: the Story of the Gömböc

Prof. Gabor Domokos



V.I. Arnold conjectured that convex, homogeneous bodies with less than four equilibria (also called mono-monostatic) may exist. It turns out that mono-monostatic bodies are neither flat, nor thin, they are not similar to typical objects with more equilibria and they are hard to approximate by polyhedra. There seems to be strong indication that these forms appear in Nature due to their special mechanical properties. In the talk, we will tell the sequence of events which ultimately led to its discovery.



We try to map the configuration space of a simple machine, a six-legged idealized roach, and find out that good old cut-and-paste topology can be a lot of fun.

8 pm – 9 pm **On Maps, Machines and Roaches**

Prof. Dror Bar-Natan

Math Book Fair
For school students
(Springer, American
Mathematical Society)

Fields Institute,
Queen's Park Station
College St. and Spadina
Ave.

Everyone is WELCOME!



Conference on the Legacy of Vladimir Arnold (November 24 - 28, 2014)