

Laszlo Roszol:

Poster title:

**Chemical waves in inhomogeneous media with circular symmetry -  
Experimental studies**

Abstract:

Wave propagation in excitable media can be treated by a simple geometric theory, similar to the geometric optics. Based on the concepts of fronts and rays, the evolution of wave fronts can be described by the eikonal equation, assuming that the propagation velocity is known. By this method the shape of rotating invariant fronts in a ring shaped medium with circular symmetry in the propagation velocity is determined. An open reactor is constructed to study the propagation of chemical waves in inhomogeneous media with circular symmetry. A software is developed to measure the local propagation velocity. The resulted fronts in experiments are compared with the theoretical ones.