

Poster 2

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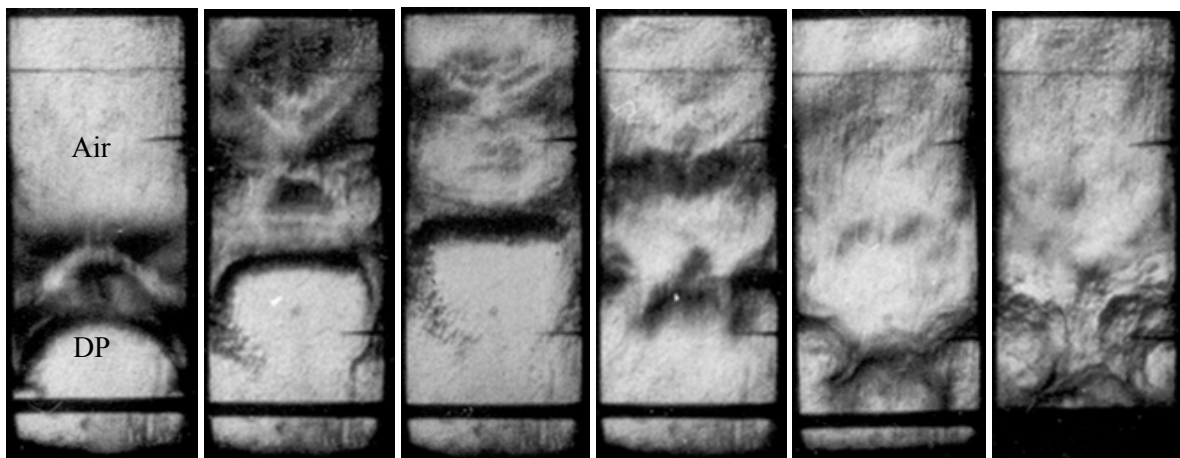
## Development of 2-d perturbations of gas - gas interface in experiments on the shock tube with the gem-driver

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Experimental data research of development of 2-D perturbations on the interface between detonation products (DP) of a gas explosive mixture (GEM) (mixture of acetylene with oxygen) and air (see figure) are presented. Experiments were carried out in a shock tube with cross-section of the channel of 8x8 cm<sup>2</sup> in the following geometry: *a rigid wall 1 – GEM layer (1,18cm) - a layer of air (21,85cm) - a rigid wall 2*. A similar shock tube works under the method described in [1]. 2-D perturbations are created by initiation of a detonation of GEM layer by electric explosion of 1÷4 wires located in parallel on a wall 1.



Development of 2-D perturbation on interface: DP - air at initiation of GEM detonation by electro-explosion of one wire located on a wall 1

### References

*Meshkov E.E.* One Approach to the Experimental Study of Hydrodynamic Instabilities: Creation of a Gas-Gas Interface Using the Dynamic Technique. The Proc of the 5th IWPCTM, Stony Brook, USA, **1995**, p.237.