

**Natalia Zaitseva**

**“Solution growth of inorganic and organic molecular crystals”**



**Natalia Zaitseva** received a Ph.D in Physics and Mathematics from Moscow State University, Russia, in 1989. In 1993 she joined Lawrence Livermore National Laboratory to lead scientific development of rapid growth technology for super-large KDP and DKDP crystals, growth of which was essential for successful operation of the world largest laser, National Ignition Facility (NIF). The work resulted in successful growth of high optical quality, 50-90 cm-size crystals grown at record growth rates of 10-30 mm/day. At present time, Dr. Natalia Zaitseva leads projects on development of new scintillator materials for radiation detection. The work includes studies of wide varieties of molecular organic crystals produced for the first time by solution growth technique. The projects that aim large-scale production of crystals for neutron and gamma-radiation detection, involve application of scientific and technical knowledge obtained in the course of long development of solution growth to new organic and inorganic systems.

Dr. Zaitseva is a recipient of the 2010 R.A. LAUDISE PRICE of the International Organization for Crystal Growth (IOCG), for “Creating the Technology and Scientific Basis of Rapid Growth of Perfect Crystals from Solutions”, 2010.

**PRESENT POSITION:**

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