

# Gennady Karasev

**Nationality:** Ukrainian **Date of birth:** 01/06/1951 **Gender:** Male

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## ABOUT ME

### Education.

1978 Graduated from Dnepropetrovsk State University with a degree in Radiophysics and Electronics.

1988 Defended a dissertation for the title of candidate of physical and mathematical sciences in the specialty "Physics of semiconductors and dielectrics" at the Institute of Semiconductors of the Academy of Sciences of the Ukrainian SSR, Kiev.

1991 Awarded the title of Associate Professor in the Department of "Physics" of the Dnepropetrovsk Civil Engineering Institute.

### Activities.

1978-1987 engineer, than junior, than senior researcher of the research sector of the Dnepropetrovsk Civil Engineering Institute.

1988-1990 assistant of the department of "Physics" of the Dnepropetrovsk Civil Engineering Institute.

1991 associate professor of the department of "Physics" of the Dnepropetrovsk Civil Engineering Institute.

1999 associate professor of the department of "Physics" of the Prydniprovsk State Academy of Civil Engineering and Architecture.

2017 - 1920 Head of the department of "Fundamental and Natural Sciences" of the Prydniprovsk State Academy of Civil Engineering and Architecture. From 2021 to present associate professor of the department of "Fundamental and Natural Sciences" of the Prydniprovsk State Academy of Civil Engineering and Architecture.

### Sphere of scientific interests.

Basic trends of current research in the of electrophysical properties in liquid dielectrics.

The complication by formation of volume charges in near-electrode areas of electric conduction of liquid dielectric in constant electric field. Using following methods for researches of conduction process:

- method of charging currents investigation;
- setting for discharging currents measurements;
- method of reversal currents investigation;
- setting for study of field distribution with using Kerr effect.

Measurements in dependence on time applied to a dielectric liquid in electric field, on applied field strength, ambient temperature. Influence of interelectrode distance on the results. Determination such parameters as value of conductivity, value and signs of mobility of charge carriers and their coefficient of diffusion under field removal, coefficients of generation, recombination, thermal energy activation of electric conduction and mobility by experimental researching.