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RESEARCHER PROFILE

- wear-contact tasks in tribology;
- theory and methods of tribological testing;
- mechanics of lubricants;
- electro-mechanical methods for modifying friction surfaces

EDUCATION

Bachelor. Khmelnsky Electromechanical College (1983). Technician is an electrician. Specialty: Operation and tuning of numerically controlled machines. Honors degree.

Master. Kiev Polytechnic Institute (1989). Mechanical engineer. Specialty: Technology of mechanical engineering, metal-cutting machines and tools. Honors degree.

Ph.D. Khmelnsky State University (1993). Friction and wear in machines. Dissertation: *Calculate and experimental models of wear and reliability of sliding bearings at variable loads.*

Doctor of Technical Sciences. Khmelnsky National University (2009). Friction and wear in machines. Dissertation: *Methods of contact tribomechanics of lubricating layers and model of wear at boundary friction.*

EXPERIENCE

1989-1991 - Engineer of the research departed Khmelnsky Technological Institute

1991-1995 - Assistant at the Department of Metal Technology of the Khmelnsky Technological Institute

1996-2008 - Associate Professor of the Khmelnsky National University

2008-To current - Professor, Head of the Department of Khmelnsky National University.

ACADEMIC HONORS

- Expert of the Ministry of Education and Science of Ukraine on the examination of competitive research projects (Engineering).

- Member of the Academic Council for the defense of doctoral dissertations at Khmelnsky National University.

PUBLICATIONS

Dykha, A.V., Kuzmenko, A.G. (2015). Solution to the problem of contact wear for four-ball wear-testing scheme. Journal of Friction and Wear, 36(2), 138-143.

Dykha, A.V., Kuzmenko, A.G. (2016). Distribution of friction tangential stresses in the Courtney-Pratt experiment under Bowden's theory. Journal of Friction and Wear, 37 (4), 315–319.

Dykha O., Sorokatyi R., Makovkin O., Posonskiy S. Investigation of the friction characteristics in the cylindrical sliding tribosystems (2017) Actual problems of modern science. Monograph: Bydgoszcz, Poland. pp. 451-465.

Dykha, A.V., Zasp, Yu.P., Slashchuk, V.O. (2018) Triboacoustic Control of Fretting. Journal of Friction and Wear, 39 (2), 169–172.

Dykha A., Marchenko D. Increase of reliability and wear resistance of cylindrical blocks with surface plastic deformation (2018) Ensuring the reliability of technical systems. Kaunas : JVE International Ltd, pp. 158-174.

Dykha, A., Makovkin, O. Physical basis of contact mechanics of surfaces (2019) Journal of Physics: CS, 1172 (1), art. no. 012003.