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**OLEKSANDR V. RADIONOV, PHD, SENIOR RESEARCHER MEMBER
 OF THE AKADEMY OF ENGINEERING SCIENCES OF UKRAINE**

AGE	62
EXPERT	Nanotechnology, Ferrohydrodynamica, Germetic Sealing and Sealing Systems, Environmental Safety
TEACHING EXPERIENCE	-
EDUCATION EXPERIENCE	Admiral Makarov Nikolaev Shipbuilding Institute, Engineer-mechanic in 1984; PHD in 1987; senior researcher in 2008 (scan-copies in Appendix A);
WORK EXPERIENCE	<p>Admiral Makarov Nikolaev Shipbuilding Institute: Postgraduate student in 1984y.-1987y. Engineer in 1987y.-1988y.</p> <p>All-Union Aluminum-Magnesium Institute: Researcher in 1988y.-1991y.</p> <p>Scientific Industrial Enterprise "Ferrohydrodynamica" Deputy Director for Research in 1992y.-1994y. Director in 1994y.-present time</p> <p>Resent research interests:</p> <ul style="list-style-type: none"> - Reliability and operability of technological equipment when using new designs of magnetic fluid seals. - Methods for creating sedimentation-stable magnetic fluids. - Assessment of the environmental and technogen safety level in the implementation of magnetic fluid seals. - Expanding the field of practical application of magnetic fluid seals. <p>Has more than 260 publications and 27 patents.</p>
CERTIFICATES OF HONOR	Award from the State Committee for Industrial Policy of Ukraine for a significant contribution to the development of engineering and the introduction of new technologies in industrial practice and due to the 10th anniversary of the founding of the Academy of Engineering Sciences.

	<p>Laureate of the All-Ukrainian contest of successful managers "Top Manager of Ukraine".</p> <p>Award from the Academy of Sciences of Ukraine for great contribution to the development of Ukrainian shipbuilding science and due to the 10th anniversary of Academy of Shipbuilding Sciences of Ukraine.</p> <p>Laureate in the nomination "Name in Science 2004" of the competition "Names of the Year 2004" held by the national magazine "NAMES"</p>
RESPONSIBLE PROJECTS	<p>Head of research and development under contracts (total number - about 300) with leading chemical, oil refining, mining, etc. enterprises of Ukraine and the CIS.</p> <p>For more than twenty years, more than 4,000 MFSs have been introduced to nearly 200 industrial enterprises of hazardous industries in Ukraine, Russia, Belarus, Moldova, Uzbekistan, Kazakhstan, and Estonia. During these years, the author's supervision over the operation of the MFSs confirms the high efficiency of the results obtained. Five electric machine-building plants of Ukraine and Russia serially produce electric motors, which include MFSs. Also, MFSs are serially installed on rotary gearboxes of mine combines.</p>
PATENTS	<p>Core patents:</p> <p>patents for invention 2161851 (Russia);</p> <p>patents for invention 72005 (Ukraine);</p> <p>patents for invention 80898 (Ukraine);</p> <p>patents for invention 83876 (Ukraine);</p> <p>patents for invention 85068 (Ukraine);</p> <p>patents for invention 106420 (Ukraine)</p>
MAIN PRODUCTS	<p>Magnetic fluid sealing (MFS) and Magnetic fluid (MF)</p>
MOST RECENT SCIENTIFIC PUBLICATIONS	<p>Author ID: http://orcid.org/0000-0001-7282-578X</p> <ol style="list-style-type: none"> 1. Martsinkovsky V.A., Tarelnik V.B., Antoshevsky B. Martsinkovsky V.S., Radionov O.V., Konoplyantschenko E.V., Gaponova O.P., Pozovny O.O. Ecological safety of operation of compressor and pumping equipment: monograph, ed. O.V. Radionov. Sumy: Sumy State University, 2018. 282 p. 2. Radionov O.V., Radionova A.A., Podoltsev A.D. Experimental study of dynamic processes in magnetic fluid in a non-uniform magnetic field of a rotating shaft sealer. <i>Technical electroynamics</i>. 2017. №2. P. 77-82. 3. Radionov O.V., Gulyaev A.A. Improving the operational reliability of devices with agitators through the use of magnetic-fluid seals. <i>Compressor and power engineering</i>. 2017. No. 3 (49). P. 25-29. 4. Radionov O.V., Podoltsev A.D., Pechkis G. Features of operation of high-speed magnetic fluid sealing complexes. <i>International scientific and technical journal "Mechanics and Advanced Technologies"</i>. 2018. Vol. No. 2 (83). P. 57-63. 5. Radionov O.V., Zharkov P.E., Tarelnik V.B. Analysis of non-stationary temperature field at the launch of a magnetic fluid sealer. <i>Compressor and power engineering</i>. 2018. Vol. No. 1 (51). P. 6-12. 6. Dikansky Yu.I., Ispiryan AG, Kunikin SA, Radionov O.V. Features of the magnetization of magnetic colloidal paraffin-based nanosystems. <i>Journal of Technical Physics</i>. 2018. Volume 88, no. 1. P. 58-63. 7. Radionov O. Magnetic fluid sealing complexes for bearing assemblies of mine main ventilation fans. <i>Magneto hydrodynamics</i>. 2018. Vol. 54, No. 1-2. P. 109-114. 8. Radionov O., Podoltsev A., Peczkis G. The specific features of high-velocity magnetic fluid sealing complexes. <i>Open Engineering</i>. 2018. Vol. 8, Iss. 1. P. 539-544.