CURRICULUM VITAE

Dr. KOPYLOV Sergey, born on December 20, 1971, citizen of the Russian Federation

Dr. Sergey Kopylov graduated from Moscow Engineering Physics Institute (Russian equivalent to MIT) in 1995 with honors. His achievements during his studies at the institute included winning the national Chemistry Olympiad among universities in 1990.

In accordance with the specialization in chemical physics, Dr. Kopylov joined the All Russian Research Institute for Fire Protection (VNIIPO) in 1995, where he is working today. From 2008 to 2019 Dr. Kopylov headed the institute's research center conducting R&D and certification programs in area of fire detection and fire suppression tools. Currently, he holds the position of a head research scientist at the Institute.

Since 2006 Dr. Kopylov has been a professor at the Department of Chemical Physics of Moscow Engineering Physics Institute. He teaches three disciplines: chemical kinetics, special problems of ecology and special problems of safety.

Dr. Sergey Kopylov's activities also include representation of national body for standardization GOST R in ISO TC 21 SC8 Gaseous fire extinguishing tools and media (since 2008 till now) and his service to the Montreal Protocol (technical expert of Halons Technical Options Committee from 2004 to 2008, Halons Technical Options Committee co-chair and TEAP member since 2008 till now).

Dr. Kopylov's area of scientific interests cover flame chemistry, inhibition of combustion by homogeneous and geterogeneous media, in-kind and not-in-kind alternatives to ODSs and high-GWP HFCs in fire and explosion protection, various aspects of fire and explosion safety in industry, chemistry of atmosphere.

Personal scientific achievements of Dr. Sergey Kopylov: PhD (1998), Dr. Sc. (Techn.) (2001). In 2020, he was awarded the prize of the Government of the Russian Federation in the field of science and technology for the development of intelligent water fire extinguishing systems.

The list of scientific publications of Dr. Kopylov includes three books and more than 200 scientific papers, some of them are listed below:

S N Kopylov, P S Kopylov, I P Eltyshev, *et al* Dibromomethane as Promising Gaseous Fire Extinguishing Substance With Short Atmospheric Lifetime 2021 *IOP Conf. Ser.: Earth Environ. Sci.* **666** 022010

S N Kopylov, P S Kopylov, I P Eltyshev, *et al* Highly Effective Fire Extinguishing Mixtures of Iodinated and Fluorinated Hydrocarbons as a Way to Reduce Greenhouse Gas Emissions into the Atmosphere 2021 *IOP Conf. Ser.: Earth Environ. Sci.* **666** 022011

S. N. Kopylov, P. S. Kopylov, I. P. Eltyshev, T. V. Gubina Characteristics of the Development of a Chain Thermal Explosion when Burning Gas Mixtures under

Atmospheric Pressure *Russian Journal of Physical Chemistry B* volume 14, 587–591 (2020)

S N Kopylov*,* P S Kopylov*,* I P Eltyshev*,* An Influence of the Peculiarities of the Concentration Field of Gaseous Fire Extinguishing Substances with high Boiling Point on Their Fire Extinguishing Properties *2020 IOP Conf. Ser*.: Earth Environ. Sci. 459 042044

S N Kopylov, T V Gubina Effect of Oxidation of Fluorohydrocarbons and Fluorocarbons on Their Characteristics as Gas Combustion Suppressing Agents *Russian Journal of Physical Chemistry B* volume 13, 291–296 (2019)

S N Kopylov*,* P S Kopylov*,* I P Eltyshev*,* Fire Safety of 1, 2 and 2L Refrigerants: Myths and Reality *2019 IOP Conf. Ser*.: Earth Environ. Sci. 272 022064

Azatyan, V.V., Bolod'yan, I.A., Kopylov, N.P. *et al.* Determining Role of the Chain Mechanism in the Temperature Dependence of the Gas-Phase Rate of Combustion Reactions. *Russ. J. Phys. Chem.* **92,** 847–852 (2018)

S N Kopylov, T V Gubina Water Vapor and Hydrogen Peroxide as Promoters of Acetylene Explosive Decay *Russian Journal of Physical Chemistry B* volume 12, 848–851 (2018)

Kopylov, S.N., Gubina, T.V. Inhibiting the combustion of air–acetylene mixtures. *Russian Journal of Physical Chemistry* **90,** 43–47 (2016)

S N Kopylov, N V Smirnov, L T Tanklevsky. Fire extinguishers for manned spacecraft *Acta Astronautica*, Volume 109, 225-230 (2015)