

Curriculum Vitae

Sergey A. Kruglov (Kruhlov Serhii)



Date of birth: June 25, 1996

Citizenship: Ukraine

E-mail: SergantSerg2012@gmail.com

Education:

School:

01.06.2013: graduated from Khartsyzsk secondary school stages I-III № 5, Khartsyzsk, Donetsk region (Ukraine).

Undergraduate:

09.2017-12.2018: V. N. Karazin Kharkiv National University, Kharkiv (Ukraine),

Faculty of Physics and Energy, Department of Thermophysics and Molecular Physics

Degree: MSc. in physics and nanomaterials (with honor).

Thesis: “Investigation of work parameters for the purpose of increasing the efficiency of the heat exchanger of the shaft self-regulator SHS-1PVM ”

09.2013-06.2017: V. N. Karazin Kharkiv National University, Kharkiv (Ukraine),

Faculty of Physics and Energy, Department of Thermophysics and Molecular Physics

Degree: BSc. in physics

Thesis: “Development of a weather cover for a container dry storage of spent nuclear fuel”

Languages: Ukrainian, Russian, English.

Schools and Conferences:

- 1) 2019 IEEE 9th International Conference on Nanomaterials: Application & Properties. Title of work: "The Mechanism of Phase-Slip Lines in Ultrathin Superconducting NbN Films" (September 15-20, 2019, Odesa, Ukraine).
- 2) X International Conference for Professionals and Young Scientists. Title of work: «Detection of the characteristics of the bubble boiling regime in helium by a superconducting film in resistive state» (3-7 June 2019).
- 3) XVI International Scientific and Technical Conference "Improving power plants using mathematical and physical modeling methods". Title of work: "Improving the safety of operating dry storage of spent nuclear fuel containers" (21-27 April 2017).
- 4) VI International Scientific and Practical Conference of young scientists and specialists in the field of design of enterprises of the mining and metallurgical complex, energy and resource conservation, protection of the environment « Innovative ways to modernize basic industries, energy and resource conservation, environmental protection». Title of work: "Analysis of the effect of wind on the thermal conditions of dry storage containers of spent nuclear fuel". (22-23 March 2017).
- 5) Conference of young scientists and specialists "Modern problems of mechanical engineering". Title of work: "Wind protection system for a ventilated spent nuclear fuel storage container" (7-10 September 2016).
- 6) First International Summer School on Engineering Computer Modeling MEPhi, Moscow, Russia (4-15 July 2016).

Publications:

Alyokhina S., Kostikov A., Kruhlov S. Safety issues of the dry storage of the spent nuclear fuel. PROBLEMS OF ATOMIC SCIENCE AND TECHNOLOGY. 2017. URL: https://vant.kipt.kharkov.ua/ARTICLE/VANT_2017_2/article_2017_2_70.pdf (access date: 14.10.2019)

Achievements:

- 1) All-Ukrainian competition "Youth to Energy of Ukraine 2016: Open Competition for Young Scientists and Power Engineers" in the nomination "Nuclear power engineering" among students, work was done on the theme "Development of weather cover for a container of dry storage of spent nuclear fuel" (1-st place). (2016)
- 2) All-Ukrainian competition of student research papers on the subject "Computer-aided design and computer modeling in mechanical engineering" Work title: "Designing a Ventilation System for Dry Storage of Spent Nuclear Fuel" (4-th place). (2016)
- 3) The best graduate of the Faculty of Physics and Energy. Got a medal «Ingenio et moribus» (Talent and virtue). (2018)
- 4) Best Presentation Award, 2019 IEEE 9th International Conference on Nanomaterials: Application and Properties.