

Results of the "Young Lighting Scientists 2025" Contest

On October 30, the long-awaited final of the International “Young Lighting Scientists” Contest was held at the Interlight | Smart City & Home exhibition in Moscow.

The Contest was held with the support of the Moscow Department, the companies Mossvet and Arlight, and members of the Russian National Committee of the International Commission on Illumination (CIE NC RU) with the “Platinum” status — the company Brightelek and LLC SVETOGOR.

This year, 39 reports were accepted for the Contest, and 8 reports by students and postgraduate students from NRU MPEI (Moscow), National Research Tomsk Polytechnic University (Tomsk), Belgorod State Technological University named after V.G. Shukhov (Belgorod), and the Shirshov Institute of Oceanology of the Russian Academy of Sciences (Moscow) reached the final of the “Lighting Engineering” Section.

Evaluating the reports, the jury members took into account the content of the presentation, its relevance, scientific and practical significance, as well as the answers to the questions asked.

In the **“Lighting Engineering”** track:

1st place — Pavlova Maria with the project “An operator methodology for the numerical solution of the radiative transfer equation in ocean optics problems”; Academic supervisor — Glukhovets Dmitry, PhD in Physics and Mathematics, Leading Researcher at the Shirshov Institute of Oceanology of the Russian Academy of Sciences, Moscow.

2nd place — Ilchuk Anna with the project "A neural network model for predicting colour perception depending on correlated colour temperature"; Academic supervisor — Makarov Denis, PhD in Engineering, Associate Professor at NRU MPEI, Moscow.

3rd place — Sych Nikita with the project "Colour identification in the mesopic range: the Role of the S/P Factor"; Academic supervisor — Snetkov Vladimir, Ph.D. in Engineering, Associate Professor at NRU MPEI, Moscow.

Special Jury Prize — Sedogin Mikhail and Prikhodko Andrey with the project "Development of high-power LED luminaires with a liquid turbulent cooling system"; Academic supervisor — Belousov Alexander, PhD in Engineering, Associate Professor at Belgorod State Technological University named after V.G. Shukhov, Belgorod.

In the **"Architecture and Lighting Design"** track:

1st place — Ko Kirill with the project "VR and AI as means of modeling the light image of a Church Building"; Academic supervisor — Karpenko Vladimir, PhD in Architecture, Professor at Far Eastern Federal University, Vladivostok.

2nd place — Daniil Nikandrov with the project "Application of artificial intelligence in developing concepts for Architectural and Artistic lighting (Using St. Petersburg as an Example)"; Academic supervisor — Pashenko Yulia, PhD in Pedagogy, Associate Professor at St. Petersburg State University of Industrial Technologies and Design, St. Petersburg.

3rd place — Trenikhina Sofia with the project "Lighting project for a flagship clothing store"; Academic supervisor — Fomin Alexander, PhD in Engineering, Associate Professor at NRU MPEI, Moscow.

English-language Section reports were distributed as follows:

1st place — Zhang Songbo with the work "Improving spatial daylight distribution in a side-lit open-plan office using Pareto–Chebyshev control"; Academic supervisor — Biao Yang, PhD, Professor at Harbin Institute of Technology, Shenzhen, China.

2nd place — Sych Nikita with the work "Colour identification in the mesopic range: the Role of the S/P factor"; Academic supervisor — Snetkov V. Yu., PhD, NRU MPEI, Moscow, Russia.

3rd place — Nakajima Hajime with the work "Temporal summation effects of middle-wavelength light on the light response of intrinsically photosensitive retinal

ganglion cells in humans"; Academic supervisor — Takao Motoharu, Professor at Tokai University, Hiratsuka, Japan.

Congratulations to all participants and winners!

All participants in the final stage were awarded diplomas. Scientific works that passed the peer-review procedure will be published in the CIE NC RU journal "Lighting Engineering Innovations" and the most outstanding works in English will be published in the journal "Light & Engineering".