

# 广东省科学院

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**The National Academy of Sciences of Ukraine (NAS of Ukraine)**

**Election Session of the General Meeting of the NAS of Ukraine**

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## LETTER OF SUPPORT

The National Academy of Sciences of Ukraine is an important partner of Guangdong Academy of Sciences in science and technology. We learned that the election meeting of the president of the National Academy of Sciences of Ukraine will be held in the near future. We will pay close attention to it and wish the meeting smooth in advance.

Academician Zagorodny A.G. is an outstanding scientist. His research made it possible to assess the influence of zonal flows on the diffusion coefficients in the case of saturated turbulence of high-temperature plasma and, in general, made it possible to make a powerful breakthrough in different directions of development of science and technology: from kinetic processes in fusion plasmas to creating new technologies for plasma processing and materials, coating, welding and surfacing.

Among his scientific achievements, the following should be noted:

- theory of spatially bounded plasma-molecular systems;
- the theory of bremsstrahlung in plasma-molecular systems, which includes all possible scattering processes with the participation of charged particles and molecules;

- theory of fluctuations in a stable stationary plasma with large scale turbulent perturbation;
- kinetic theory of dusty plasmas, generalization of the Bogolyubov's approach to the case of dusty plasmas.

Academician Zagorodny A.G. has made great contributions to the cooperation between Guangdong Academy of Sciences and the National Academy of Sciences of Ukraine. Being the vice president of the NAS of Ukraine, Academician A.G. Zagorodny has given great attention and all kinds of support to the development of the China-Ukraine E.O. Paton Institute of Welding which is an innovative scientific platform for international cooperation based on Guangdong Academy of Sciences. Also Academician Zagorodny A.G. was one of the organizers of the signing and implementation of the provisions of *Framework Agreement on Comprehensive Cooperation between Guangdong Academy of Sciences and the National Academy of Sciences of Ukraine*. Under the leadership and active participation of Academician Zagorodny A.G., a joint large international fundamental research project *Establishment of Multi-field Coupling Physical Model and Key Technologies for Intelligent Welding* was set up in 2019, in which a number of NASU Institutes participate: E.O.Paton Electric Welding Institute, Bogolyubov Institute for Theoretical Physics, Institute of Electrodynamics, and also National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute", Taras Shevchenko National University of Kyiv.

Academician Zagorodny A.G. is an old friend of Guangdong Academy of Sciences. We believe that he is a good leader and would like to write this letter to express our confidence in him as he is running for the post of the president of the National Academy of Sciences of Ukraine. Nevertheless, we totally respect the final result of the election. We hope that the cooperation between the two academies will be strengthened and expanded in the future.

Best regards!

Liao Bing

President of Guangdong Academy of Sciences

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