

«КӨМІР ХИМИЯСЫ  
ЖӘНЕ ТЕХНОЛОГИЯ  
ИНСТИТУТЫ» ЖШС



«INSTITUTE OF COAL  
CHEMISTRY AND  
TECHNOLOGY» LLP

ТОО «ИНСТИТУТ ХИМИИ УГЛЯ И ТЕХНОЛОГИИ»

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от 17.08.2022

*Dear Professor Aleksander Sobolewski!*

The staff of the LLP "Institute of Coal Chemistry and Technology" (Kazakhstan) sincerely thanks you for your help in organizing the scientific internship for the scholarship holders of the international educational program "Bolashak", the leading researchers of the Institute, Candidate of Technical Sciences Kasenova Zhanar Muratbekovna and PhD, associate professor Kazankapova Maira Kuttybaevna.

The management of the Institute notes the high professional level of your scientific team in the field of low-carbon technology and processing of solid fossil fuels. With your leadership and represented by the scientific secretary Sławomir Stelmach, head of the laboratory Edyta Misztal, leading employees and scientists Adam Tatarczuk, Tomasz Spietz, Andrzej Czapliski, Piotr Jarosz, Adam Cygan, Szymon Dobras, Mateusz Szul, Katarzyna Rychlewska and other scientists throughout the entire period internships carried out joint scientific - research work.

During the internship, interns - employees Kasenova Zh.M., Kazankapova M.K. got acquainted with the work of the laboratory: analytical chemistry, combustion and energy technologies, coke technologies, equipped with modern instruments and equipment. Analyzes of the brought samples of potassium humate, ammonium humate and adsorbents from coals of Kazakhstan were also carried out.

Employees were given the opportunity to get acquainted with the principles of operation of pilot technological installations: 1) installation for gasification/ pyrolysis of solid fuel; 2) installation for gasification of biomass; 3) installation for capturing CO<sub>2</sub> by amine absorption; 4) installation for gasification/oxygen combustion of solid fuel in the pressurized CFB reactor.

In turn, at the seminar of the Institute, the researchers of our Institute Kazankapova M.K. and Kasenova Zh.M. were presented the results of research on coal chemistry products, which aroused scientific interest on the part of Polish scientists.

The management of "Institute of Coal Chemistry and Technology" LLP and "Scientific and Production Association "Kaztekhnougol" LLP expresses sincere gratitude for the cooperation between our Institutes and hopes for fruitful cooperation in the field of processing solid fossil fuels using clean coal technology within the framework of a tripartite memorandum concluded by the leadership of our Institutes.

Sincerely,  
Director of the Institute of Coal  
Chemistry and Technology  
Doctor of Chemical Sciences, Academician



B. Yermagambet