

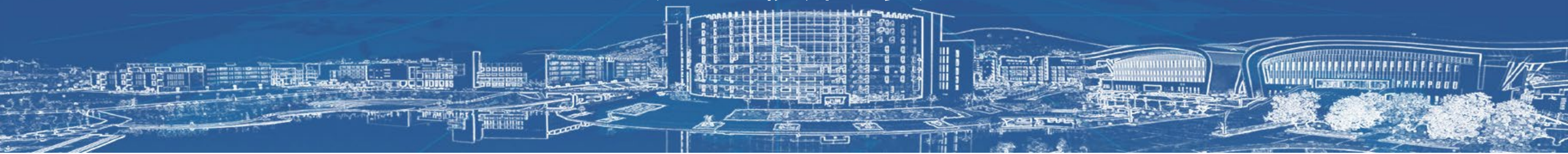


# 海外专家系列报告——新能源发电与高性能电机 驱动系统关键技术

时间：2024年7月31日-8月2日

线下报告：文昌校区教四楼101

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- **学术报告1: Energy-efficient asynchronous electric drive**
- **报告人: Shamiyev Murat Fikhratovich (塔什干国立理工大学) 时间: 7月31日9: 00-10: 00**
- **报告简介: With the increase in global energy consumption and the increasing environmental problems, the development of energy-efficient motor technology has become particularly important. This report focuses on the key technologies for energy-efficient asynchronous drive motors, detailing several key technologies including but not limited to advanced material applications, optimized electromagnetic design, intelligent control strategies, and thermal management techniques. The report concludes by discussing the potential applications and future directions of these technologies, and making recommendations on how to further optimize motor performance.**
  
- **学术报告2: Energy development prospects uzbekistan**
- **报告人: Pulatov Abror Abidovich (塔什干国立理工大学) 时间: 7月31日10: 00-11: 00**
- **报告简介: This report mainly introduces the active development of renewable energy in Uzbekistan, such as solar and wind energy, introduces the specific development plan of Uzbekistan on renewable energy, as well as the impact of energy structure transformation on the local economic development of Uzbekistan, and finally introduces the main challenges facing Uzbekistan in the field of energy.**



- **学术报告3: Energy-efficient for continuous and cyclic mechanisms**

- **报告人: Shamiyev Murat Fikhratovich (塔什干国立理工大学) 时间: 8月1日9: 00-10: 00**

- **报告简介: In the industrial and civil fields, continuous and cyclic mechanisms account for a considerable proportion of energy consumption. This report aims to explore how energy savings in these institutions can be achieved through innovative design and technological improvements. First, the report Outlines the basic concepts of continuous and cyclic mechanisms and their importance in modern mechanical systems. Then, the key factors affecting the energy consumption of the mechanism are analyzed, including kinematic design, material selection, driving mode and control strategy.**

- **学术报告4: Prospective directions for achieving energy efficiency**

- **报告人: Pulatov Abror Abidovich (塔什干国立理工大学) 时间: 8月1日10: 00-11: 00**

- **报告简介: With the continuous growth of global energy demand and the increasingly severe environmental problems, improving energy efficiency has become an important global issue. This report explores future directions for achieving energy efficiency and aims to provide guidance and reference for policy makers, industry and academia. The report begins with an analysis of the current state of energy efficiency and key challenges, including the increase in energy consumption, the limited nature of energy resources, and environmental impacts.**



- 学术报告5: Electric machine design

- 报告人: Nguyen Vu Thanh (越南河内科技大学) 时间: 8月1日15:00-16:00

- 报告简介: Motor design is a multidisciplinary and technology-intensive field. With the application of new materials, new processes and intelligent control technology, motor design is developing in the direction of more efficient, more intelligent and more environmentally friendly. Faced with the challenge, motor designers need to constantly innovate to meet the growing market demand. This report mainly introduces the design principles, design process and the impact of application fields on motor design.

- 学术报告6: Electric machines-The key technology for Application Industry

- 报告人: Dang Quoc Vuong (越南河内科技大学) 时间: 8月1日16:00-17:00

- 报告简介: Industrial applications place strict performance and reliability requirements on motor design. With the advancement of Industry 4.0 and the development of intelligent manufacturing, motor design is playing an increasingly important role in the field of industrial automation and control. This report will explore the key techniques of motor design in industrial applications and their impact on industrial development.



- **学术报告7: The first application example of design discussion**
- **报告人: Nguyen Vu Thanh (越南河内科技大学) 时间: 8月2日8:30-9:30**
- **报告简介: This report mainly focuses on the motor design rules mentioned in the previous report, and gives examples for specific application scenarios to verify the practicability and accuracy of the design rules proposed by us**
  
- **学术报告8: Trends, Challenges and Opportunities of Electric machines**
- **报告人: Dang Quoc Vuong (越南河内科技大学) 时间: 8月2日9:30-10:30**
- **报告简介: With the transformation of the global energy structure and the improvement of the level of industrial automation, the development of the motor as the core component of the drive equipment is facing unprecedented opportunities and challenges. The purpose of this report is to explore the future development trends of motor technology, analyze the opportunities presented by them, and identify possible challenges.**



**Pulatov Abror Abidovich**, 塔什干国立理工大学“电气机械和电气技术”系主任。主要专著有《感应坩埚炉的热运行条件》、《采矿企业电气设备和供电指导手册》、《电气技术基础实验室工作指南》、《电气技术装置的设计与操作》。主要研究方向包括冶炼装置感应器，异步电动装置的监测、控制和调节等研究。中国国家科学技术部“新能源电动车技术与装备中东欧国家国际联合研究中心”学术委员会委员、江苏省高校新能源发电与电动车国际合作联合实验室学术委员会委员、“新能源发电与电动载运”江苏省外国专家工作室成员。



**Shamiyev Murat Fikhratovich**, 塔什干国立理工大学教授，先后担任Azia Triol 合资企业（俄罗斯和乌兹别克斯坦）首席专家，“Энерготежаш”技术总监，Techno Energo 集团有限责任公司首席工程师。主要研究方向包括横向开关磁阻电机，散热性研究等。中国国家科学技术部“新能源电动车技术与装备中东欧国家国际联合研究中心”学术委员会委员、江苏省高校新能源发电与电动车国际合作联合实验室学术委员会委员、“新能源发电与电动载运”江苏省外国专家工作室成员。

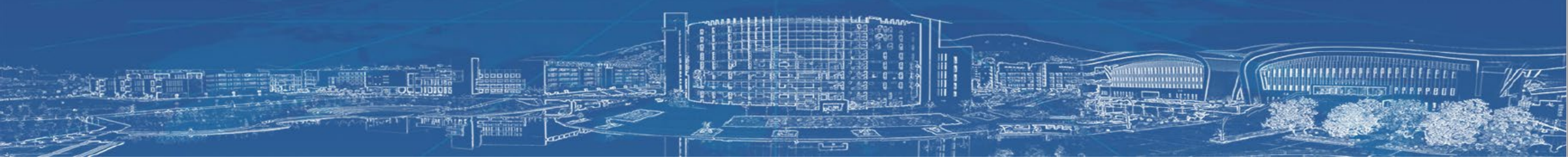


## 报告专家简介:

**Dang Quoc Vuong**, 越南河内科技大学教授, 先后担任越南中央水电局高级设计师, 越南国家科学技术部技术创新局技术专家, 河内科技大学电气与电子工程学院教授。主要研究方向包括薄壳双向耦合电机, 磁场磁通量不准确性研究等。



**Nguyen Vu Thanh**, 越南河内科技大学教授, 河内科技大学电气与电子工程学院主任。主要研究方向包括风力发电电机, 磁场磁通量不准确性研究、电机控制、机电系统、风力涡轮机、多智能体控制等。





## 承办单位：

新能源电动车技术与装备中东欧国家国际联合研究中心

江苏省外国专家工作室

江苏省高校新能源发电与电动车国际合作联合实验室

中国矿业大学电气工程学院

徐州市电动汽车动力系统高价值专利培育示范中心

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欢迎全校师生参加！