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江苏省矿山地震监测工程实验室

Jiangsu Engineering Laboratory of Mine Earthquake Monitoring and Prevention

江苏省矿山地震监测工程实验室是由江苏省发改委2016年批准建设的国内第一个省级矿山地震监测工程实验室，依托采矿工程国家级重点学科，实验室主要从事矿山地震动力灾害基础理论研究和矿山防震减灾工程技术开发、应用和培训，并承担本科课程实验及科技创新活动。面向国家矿山能源安全战略的保障需求，实验室设有矿震致灾机理、矿震灾害防控、技术与装备研发和远程监测预警四大重点研究方向，与多个矿山企业共建了矿山地震监测工程示范基地、冲击地压防治研究中心，实现了矿震、冲击地压等煤岩动力灾害的远程诊断、防控和再现模拟等技术成果的转化与应用。

近年来，实验室与兖矿集团、徐矿集团、安徽理工大学等企业和单位进行了深入合作，取得了系列工程应用和研究成果。实验室承担了13项国家级项目和90余项企业项目，获得120余项专利，发表150多篇论文，研发了12项技术和装备，制定国家标准5项，并通过开放课题积极开展对外科技合作。由实验室主办的“冲击矿压监测预警及防治技术研讨会”已在国内外具有重大学术影响。

Jiangsu Engineering Laboratory of Mine Earthquake Monitoring and Prevention is the first provincial-level mine-scale seismic monitoring engineering laboratory approved by Jiangsu Development and Reform Commission in 2016. Relying on state-level key disciplines of mining engineering, the laboratory is mainly engaged in the basic theoretical research in mining-induced dynamic hazards, undertaken undergraduate course experiments and scientific and technological innovation activities, and the development, application and training of seismic prevention and disaster mitigation. To meet the needs of national mine energy security strategy, the laboratory has four key research fields: mechanism of mine seismic disasters, prevention and controlling of mine earthquake hazards, research and development of technology and equipment, and remote monitoring and early warning. The laboratory has successfully cooperated with many mining enterprises in scientific research and carried out the Research Center for Rock Burst Prevention and Control and demonstration base construction for mine seismic monitoring. Besides, it has realized the transformation and application of technical achievements such as remote diagnosis, prevention and reproduction of coal and rock dynamic disasters like mine seismicity and rock burst.

In recent years, the laboratory has carried out in-depth cooperation with Yanzhou Coal Mining Company Limited, Xuzhou Coal Mining Group, Anhui University of Science & Technology and other enterprises and units, and has made a series of engineering applications and research results. The laboratory has undertaken 13 national-level projects and more than 90 enterprise projects, obtained more than 120 patents, published more than 150 papers, developed 12 key technologies and equipment, formulated 5 national standards, and actively carried out foreign scientific and technological cooperation through open fund. The Rockburst Monitoring and Prevention Technical Seminar sponsored by the laboratory has become a major domestic influential meeting.

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