

# International Conference on Research Reactors: Safe Management and Effective Utilization

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## Modern methods to test materials and fuel in research reactors of RIAR

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RIAR uses the SM-3, MIR.M1, BOR-60, RBT-6 research reactors to test materials and fuel. By their design and purpose, all the RIAR reactors refer to test reactors and are used for applied research in the field of nuclear power engineering and radioisotopes production.

The innovative nuclear power systems of the next generation must be more efficient and safe. To solve these tasks there are necessary the new materials with higher properties, i.e. to carry out research activities, investigations and examination of properties of different materials under irradiation.

It should be mentioned that RIAR's research reactors have comprehensive and harmonic capabilities to test fuels and materials for all existing and innovative projects of water-cooled reactors, including super-critical water parameters with moderated neutron spectrum, and fast reactor with liquid metal and gaseous coolants.

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