

**Session Title: Innovations in Nuclear Energy**

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The ARC-100 reactor is a 100MWe liquid sodium cooled, metal fueled, pool-type fast reactor. A disciplined expansion of the highly successful EBR-II reactor, it possesses the same inherent nuclear safety characteristics in conjunction with diverse and redundant passive decay heat removal systems. This unique combination of design features permit this reactor to be both affordable and competitive as compared to all other means of electricity generation. Additionally, operation in the fast spectrum along with pyroprocessing, allow this reactor to address concerns associated with used fuel by closing the fuel cycle, greatly reducing the toxicity and volume of used fuel byproducts.