

**2017 Mo-99 TOPICAL MEETING ON
MOLYBDENUM-99 PRODUCTION TECHNOLOGY DEVELOPMENT**

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A New Paradigm for Mo-99/Tc-99m Supply

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ABSTRACT

Canadian Isotope Innovations Corp. (CIIC) is a new company dedicated to creating an entirely new approach to Mo-99/Tc-99m production that addresses many of the on-going issues and concerns with the current fission production supply chain. This new paradigm uses technology developed in Canada for photo-neutron production of Mo-99 with high power electron linacs, coupled with on-going development of new low-specific-activity Mo-99 generators. These two technologies allow more redundancy and scalability in production allowing CIIC to better meet customer needs, while avoiding the use of either reactors or uranium resulting in a vastly smaller radioactive waste stream.