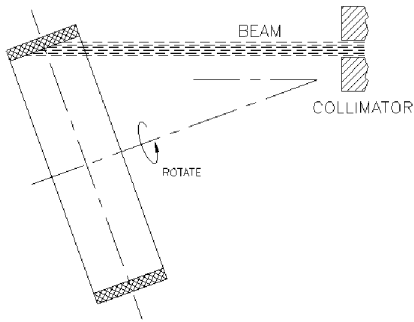


# Activation Services by ANS Technologies

Contact Dr. Kenneth Oxorn, 514-343-7669,  
OXORN@LPS.UMONTREAL.CA, WWW.ANST.CA



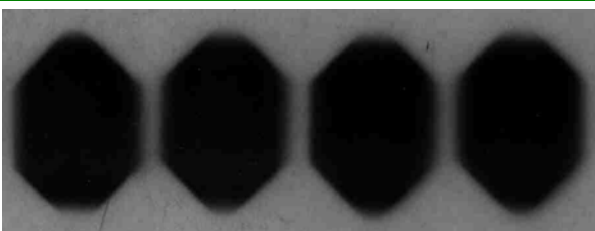
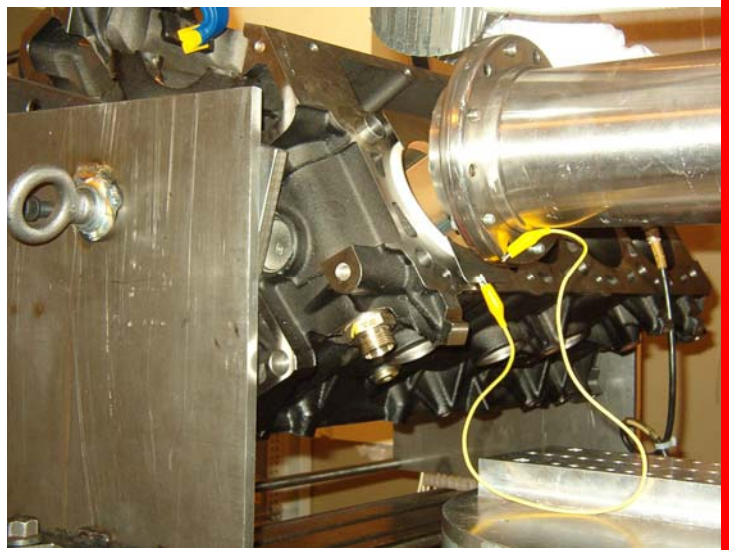
## Activation Services

ANS Technologies operates its own activation facility at the University of Montreal. We are equipped to perform proton, deuteron and heavy-ion activations on a wide variety of components, materials and geometries. We also cooperate with other facilities to provide additional services of neutron activation, implantation, and specialized profiles.

## Target Handling

The targets for TLA studies range in size from pinpoint to engine blocks. Our facilities are capable of activating areas as little as 1 mm in diameter. Automated target handling and beam sweeping allows us to irradiate a wide variety of shapes, using specialized masking techniques.

Shown is the irradiation of the bores of a Diesel engine block. Four areas were irradiated on each of eight bores, using protons or deuterons to create different isotopes near the top & bottom of each bore.



## Autoradiograph of Crossheads

Exposure on Photographic Paper of Activated Surfaces of Diesel Engine Crossheads

## Many Components Activated

ANS Technologies has activated engine components such as liners, piston rings, cam shafts, valves, crossheads, followers, adjusting screws, bearings, injectors and bores. We have also activated components of ion thrusters for the Jet Propulsion Laboratory of NASA, and the interior of steel tubes for CANDU reactors.