

MR BONNE POSMA

**Chairman
Nuclear Africa (Pty) Ltd**

Bonne Posma studied Radio Physics at the University of Western Ontario in Canada and obtained his Bachelor's degree in 1962, when he joined the Airtron division of Renfrew Electric and led a team of engineers in producing upgrades to the Canadian Navy's SPS 10 radar system. In 1964, he took up a position as Research Officer at the National Physical Research Laboratory of the CSIR in Pretoria.

In 1968, Posma founded Safronics (Pty) Ltd a company producing thyristor energy conversion drives for industrial and mining applications and supplied 3,300 VDC rectifiers for the South African Railways. In 1978, Safronics produced a 20 000 Ampere pulsed power supply for the Tokamak experiments of Necsa at Pelindaba. In 1980, Posma returned to North America to expand the manufacture of high power energy conversion devices and sold Safronics to Murray and Roberts. Safronics has continued to prosper and today manufactures and supplies large rectifiers throughout Africa.

Posma founded Saminco Inc. in Florida in 1992, specializing in electric propulsion systems for off-road vehicles and underground mining conveyances. Saminco has supplied drivers for experimental electric vehicles such as the Buckeye Bullet of the University of Ohio, which achieved a world land speed record of 512 km/h at the Bonneville Salt Flats in 1999. Saminco also supplies large propulsion drive systems for diesel electric locomotives and US Navy and commercial ships.

Posma was the principal shareholder in Liquid Coal Inc which, together with Professor Harold Schobert of Penn State University, designed a Coal to Liquid fuel process using heat from the South African designed PBMR. This process produced 50l of diesel fuel in a small pilot plant in Pittsburgh, using natural gas as a heat source. Unfortunately, this programme was abandoned when PBMR development was defunded in South Africa.

During 2011, Posma expanded operations to China and South Africa, and supplies electric propulsion systems to Sasol, and to South African industrial and mining customers.

Posma is a member of the IEE (Institution of Electrical and Electronic Engineers), ANS (American Nuclear Association), and AAS (American Association of Science).