

IEEE Kitchener-Waterloo Section

GOLD Chapter Company Tour

Raytheon's RADAR: Looking to the Future

Abstract:

Raytheon's Waterloo facility is a world leader and a registered center of excellence in the fields of solid-state primary surveillance radar (PSR) and high frequency surface wave radar (HFSWR) technology. This facility has been a major supplier of air traffic control equipment for over 40 years, and has produced an extensive range of radars, signal processing, and data management systems for land and sea civil and military land and maritime applications.

The tour begins with a brief presentation: First an overview of Raytheon's latest Digital Airport Surveillance Radar (DASR) system is presented. This solid-state, air cooled radar system has superior tracking capability and costs less than analog system with longer durability and easier maintenance. In the second part of the presentation, Raytheon's Integrated Maritime Surveillance (IMS) system is introduced. This system uses land-based long-range high frequency surface wave radar (HFSWR) system. The HFSWR system has revolutionized the maritime surveillance technology by offering a cost effective 24 hours/7 days over the horizon coverage with the capability of tracking air and surface targets up to 200nm. Finally, a High Clutter Tracking (HCT) system developed in Raytheon for homeland security and search and rescue purposes is introduced.

Following the presentation, attendees are given a tour of Raytheon's Waterloo facility.

DATE: Thursday, September 15, 2005

TIME: 5:00pm - 6:00pm

LOCATION: Raytheon Canada Limited

400 Phillip Street, Waterloo, ON

Attendance is limited - RSVP to dizaji@ieee.org by Sept 9th.

Entrance badges will be available upon arrival.

(Light refreshments will be served)