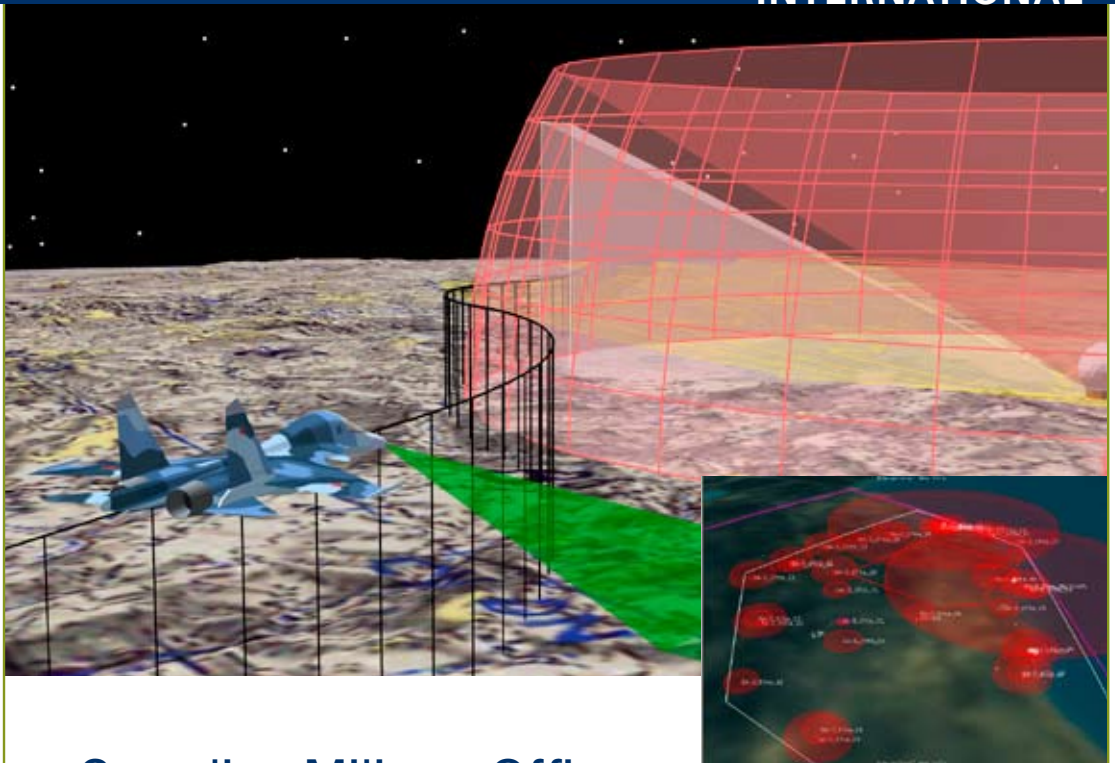


AS PREVIOUSLY
PRINTED IN *InVIEW*
FEBRUARY 2004



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Canadian Military Officers Deploy STK in Training

THE CANADIAN FORCES SCHOOL OF AEROSPACE Studies (CFSAS), located at 17 Wing in Winnipeg, Manitoba, delivers professional military education and technical specialty courses to officers in the Canadian Forces. These highly technical seminars include a one-week Space Applications Course and a three-week Advanced Operational Electronic Warfare course in which instructors use the 3-D visualization component of STK to assist the students in more easily comprehending the course's complex concepts.

During the space applications course, students learn fundamentals of space power and its application on the modern battlefield. The course is structured so that participants gain an understanding of space applications and how to integrate space-based assets into land, sea, and air operations. Students employ STK to visualize orbits, periods, ground traces, and sensor swath width—in particular the footprint of satellite communications antennae and electro-optic sensors. Using STK's access and coverage capabilities, they learn concepts of constellation design and gain an understanding of satellite sensor vulnerabilities. Instructors use the STK GPS constellation demo scenario to augment the course's GPS tutorial.

CFSAS offers the advanced operational electronic warfare course to selected military personnel whose positions deal directly with electronic warfare. The classes teach individuals how to work effectively in this specialized area at the squadron, wing, and higher headquarters levels. STK provides a three-dimensional viewing environment for depicting the sensor and weapon en-

STK scenarios incorporating terrain data, geospatial intelligence overlays, and threat domes enable students at the Canadian Forces School of Aerospace Studies to design and visualize a fighter jet's flight path (above). The image to the right depicts a training exercise displaying a surface-to-air engagement and protection network.

gagement envelopes of the course's capstone exercise. This capability, combined with STK's ability to process and display azimuth-elevation masks based on terrain data, offer the students a detailed synthetic planning and analysis environment. This is key to enhancing their understanding of employing electronic warfare assets in a theater of operations to meet the commander's aims.

In 2005 CFSAS will become part of the new Canadian Forces Aerospace Warfare Centre (CFAWC). Along with current classroom uses, STK will assist newly mandated responsibilities such as exercise analysis and doctrine development at CFAWC. ▲

