Fear of flying

...a birds-eye

by John Bird

"Is your air sickness bag handy?" asked Captain Girard. After I assured him that it was, he banked the jet sharply. This was his opening manoeuvre in a demonstration of a "Tutor" aircraft used by the Canadian Forces Air Demonstration Team "The Snowbirds". This flight was part of a recent visit I was privileged to have with the team at Canadian Forces Base Comox, on Vancouver Island.

Side-by-side seating and a clear plastic canopy allowed an excellent all-around view as the horizon rolled into a vertical line orientation. On the right was a duplicated on each side because

sunny sky, and on the left were mountains and the coastline. Although it seemed we should be falling out of our seats, the "g force" of the turn held us in securely. This was a typical turn; we pulled three or four "g's", which tripled the weight of everything in the aircraft, including our bodies. My oxygen mask and helmet became very heavy. I could feel the blood starting to flow down from my head. After a few more seconds I would have blacked out, but Capt. Girard leveled the plane. Accordingly, the duplicate control stick between my knees moved with his.

Most of the controls are

the Tutor is a training aircraft. So Capt. Girard offered to let me try my hand at flying. Gripping the control stick, I leaned it to the right, suddenly throwing us into a hard right turn.

'Keep it gentle," Capt. Girard warns me over the intercom. Slight forces to the left and right kept the aircraft straight, and back and forth kept it level. It was like super-sensitive power steer-

"Would you like to see a roll?" Capt. Girard asked.

"Sure," I replied, apprehen-

"It's easy to do, just bring the nose up to 20 degrees," he explained, pointing out the 20 degree line of the climb indicator. "Then ease off on the control stick, and give it full deflection." As he did this, the horizon rotated right around. I could feel the rotation, but I didn't budge from my ejection seat because of the multiple shoulder straps, seat belt, and parachute harness even more fun than the exhibition! Coming out of the roll after about four seconds, we were flying straight and level.

"Now you can try it," Capt. Girard decided. It seemed easy enough for him, but he is an instructor pilot with 2000 hours of jet flying time. Anxiously, I pulled back slowly on the stick until the climb indicator hit the 20 degree line, and the horizon dropped out of view. Then, leaning the stick over slowly to the right, the horizon rolled around, and we ended up rolling a bit too far, and nose down.

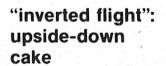
"Bring it over faster and the nose won't drop as far," Capt. Girard explained, so I tried the

Over the shore, heading toward the mountains on the island, the ride became very bumpy, like a motorboat at high speeds on rough water.

"Let's get back out over the water," Capt. Girard advises. "This turbulence is due to the topography here, and the high winds." So we headed back out over the water.

securely restraining me. This was

roll again with a bit more success.



"Now I'll show you a loop," Capt. Girard tells me. We climbed sharply and the next thing I saw was the ground above me. As we approached the top of the loop, the horizon was level but the ground was in the sky, and the sky was below us. We were not hanging in our harnesses. Rather, we were held in our seats by the "g" force of the loop, which made us feel as though we should be right side up. As the ground rolled back under us, Capt. Girard was ready for the next manoeuvre.

"Here is a slight variation." Up we went again. This time, at the top of the loop, when we were upside-down, he rolled the plane over, completing a half loop. Then rolling the plane half way, but flying level, he said, "This is

inverted flight," and we wer an hanging upside down in outimin seats.

Flying these manoeuvre throt made me realize that great skill loop required to perform them co form rectly. That's why the pilo ed th selected for the Snowbirds a Split the best in the Canadian Force vertice But even these men need a fe out i months more training to learn smol perform these manoeuvres formation. They learn to fly usin displ the adjacent plane as the on seve reference point. Concentation primarily on maintaining a postin a tion just a few feet from th adjacent aircraft, th manoeuvres themselves must be instinctive. To complicate the situation, they must mainta flying grou precision while under high "g's with the ground spinning aroun watc in every direction, which can were

weightlessness, Capt. Giran pulled the plane up, then we into a dive, following a giant ar Over the top of it, my camer ques strapped around my neck, begaproc to float in front of me. All loos straps and wires were suspended debr randomly. We were astronau for a few seconds.

disorienting.

Meanwhile, on the groun with the other nine Snowbirds we preparing to take off. We watched 1 them as they headed down the runway in formation, with Maj Denis Gauthier, the Tea Leader, in front. Approaching th formation, I could see that the was slight relative motion amor the planes as they jockeyed their positions. This is on perceptable when flying close poin the formation.

the s

Capt. Girard flew around the five team so I could take a feareca pictures. For an added visu effect, they turned on their wh smoke

By this time, our plane w running low on fuel, so we lande to watch the team practice the 28 minute show. Cpl. lan Neilso the Snowbirds safety system technician, helped me di connect my oxygen, cor munications, and all the stra holding me into the ejection set

He pointed out the lights the Snowbird aircraft as the came into view. When they read ed their usual operational region 1500 feet away, at the minimu safe height of 300 feet, the formation itself performed an while trailing the smoke. Tw "solo" aircraft then separate and headed away in opposi directions. Returning, they see ed to be on a collision course. course they missed. Still, it w sensational. As they vanished the other group came into view





Simultaneous photos from different angles