



**Carleton University & the AHS Montréal –Ottawa Chapter
invites you to a presentation on the subject of**

Novel Design of a Medium-Size Helicopter

by

Professor Inderjit Chopra

**Director of the Alfred Gessow Rotorcraft Center
Department of Aerospace Engineering
University of Maryland**



**Wednesday May 5th at 6:30 pm
Carleton University, Ottawa, Ontario**

Veillez prendre note que la presentation sera faite en anglais

Place:	Carleton University, Senate Chamber Robertson Hall 6th Floor (“RO” on the attached campus map) 1125 Colonel By Drive, Ottawa, ON, Canada K1S 5B6	
Date:	Wednesday May 5th, 2010	
Agenda:	18h00-19h00	Registration & buffet
	19h00-19h10	Welcome
	19h10-20h25	Professor Chopra
	20h25-20h50	Q&A
	20h50-21h00	Closing remarks
Cost:	AHS member	Free
	Non-member	\$ 10
	Student and Faculty members	Free
	Parking is free in Parking Lot P2\$ for those attending this event (Please see attached campus map for the location of this parking lot). Participants from Montreal will receive a re-imbusement of \$20 per car for each car bringing at least 3 participants to the event	
RSVP:	Space is limited, so please book your seat ASAP (at the latest by <u>Wednesday 28th April, 2010</u>). Register with: Andrew Sayer - asayer@bellhelicopter.textron.com - (450) 971 6500 x 2597 or Dr Daniel Feszty - dfeszty@mae.carleton.ca	

About the speaker:

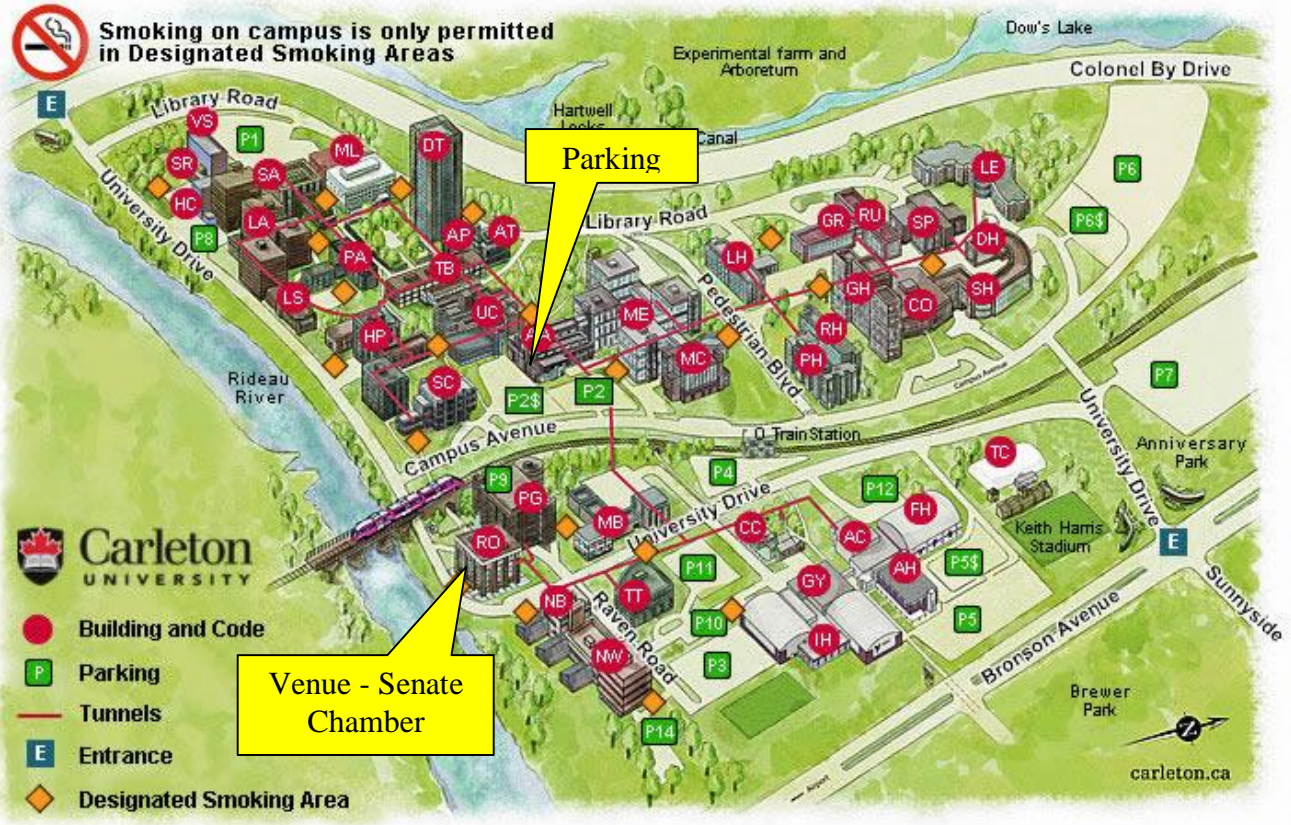
Dr. Inderjit Chopra is an Alfred Gessow Professor in Aerospace Engineering and Director of the Alfred Gessow Rotorcraft Center at the University of Maryland. Also, he was the Minta-Martin Research Professor from 1996 to 2000. After receiving his Sc. D. degree from the Massachusetts Institute of Technology in 1977, he joined the NASA Ames/Stanford University Joint Institute of Aeronautics & Acoustics, where he worked for four and half years on the development of aeroelastic analyses and testing of advanced helicopter rotor systems. In 1981, he joined the University Maryland as an Associate Professor, and got promoted to Full Professor in 1986. He has been working on various fundamental problems related to



aeromechanics of helicopters including aeromechanical stability, active vibration control, modeling of composite blades, rotor head health monitoring, aeroelastic optimization, smart structures, micro air vehicles, and comprehensive aeromechanics analyses of bearingless, tilt-rotor, servo-flap, compound, teetering and circulation control rotors. His direct graduate advising resulted in 36 Ph.D. and 60 M.S. degrees. He has been the principal investigator of four major research programs: Army's University Research Initiative (URI) (1992-97) on "Smart-Structures Technology: Innovations and Applications to Rotorcraft Systems," Army's Multidisciplinary University Research Initiative (MURI) (1996-2001) on "Innovative Smart Technologies for Actively Controlled Jet-Smooth Rotorcraft," Army/NASA's "Rotary-Wing Center of Excellence" (1982-2005) and Army's MURI (2004-09) on "Micro Hovering Air Vehicles: Revolutionary Concepts and Navigational Advancements." He acted as the Department Chairman from 1988-1990. An author of 150 archival journal papers and 234 conference proceedings papers, Dr. Chopra has been an associate editor of the *Journal of the American Helicopter Society* (1987-91), *AIAA Journal of Aircraft* (1987-cont.) and *Journal of Intelligent Materials and Systems* (1997-cont.). Also, he has been a member of the editorial advisory board of four journals, *VERTICA* (1987-91), *Smart Materials and Structures* (1994-01), *SADHANA* (1991-95) and *Journal of Aircraft* (2002-cont.). He was awarded the 1992 UM's Distinguished Research Professorship, 1995 UM's Presidential Award for Outstanding Service to the Schools, 2002 AIAA Structures, Structural Dynamics and Materials Award, 2002 AHS Grover E. Bell Award, 2001 ASME Adaptive Structures and Material Systems Prize, 2002 A. J. Clark School of Engineering Faculty Outstanding Research Award, and 2004 SPIE Smart Structures & Materials Lifetime Achievement Award. He has been a member of the *Army Science Board* (1997-2002). He is a Fellow of the *American Institute of Aeronautics and Astronautics (AIAA)*, a Fellow of the *American Helicopter Society (AHS)*, a Fellow of the *American Society of Mechanical Engineers (ASME)*, a Fellow of the *Aeronautical Society of India (ASI)* and a Fellow of the *National Institute of Aerospace (NIA)*.



Smoking on campus is only permitted in Designated Smoking Areas



- Building and Code
- P Parking
- Tunnels
- E Entrance
- ◆ Designated Smoking Area

Venue - Senate Chamber