

# 2005 Annual CDEN Distinguished Lecture

Tuesday, May 3, 2005

10:00 am

Spencer Engineering Building,  
Room 1200

**Douglas Ruth, P.Eng., Ph.D.**  
**Professor and Dean**  
**Faculty of Engineering**  
**The University of Manitoba**



*All are welcome to attend.*

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## **INNOVATION-2-innovation:**

*Engineering design education, why it is important, and how we can pursue it*

The talk begins with a review and redefinition of the much overused word “innovation.” Dr. Ruth will show that there is a range of “innovation,” from spectacular scientific breakthroughs to individual engineering design details. He will also give his interpretation of how engineering education has swung from the training of design engineers to the education of engineering scientists.

Using excerpts from his talk “Engineers: Enablers of Civilization,” Dr. Ruth will demonstrate how important design engineering education is to the future standard of living. Following this, he will share some experiences that he has had while serving on the Canadian Engineering Accreditation Board, as they relate to design education. The talk ends with a tour of the initiatives that the University of Manitoba has taken to ensure that design education becomes and remains an integral component of our undergraduate and graduate programs.

