

J D MOLLARD AND ASSOCIATES LIMITED  
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October 22, 2004

Eric Nickel  
President  
Saskatchewan Geological Society  
Regina, SK  
enickel@ir.gov.sk.ca

Dear Eric:

**Re: Nomination to the SGS 2005 Honour Roll**

It our pleasure to nominate **Dr. Jack Mollard** for induction to the Saskatchewan Geological Society 2005 Honour Roll.

Jack is well known to the local engineering and geoscience community, and his achievements and contributions in the fields of engineering, geoscience, teaching, writing and consulting are truly remarkable.

A Saskatchewan native, Jack grew up on a farm near Xena, a short distance west of Watrous. To supplement their income during the drought of the 1930's, Jack's family also raised St. Bernard dogs. At one time the family had the largest kennel in North America, shipping dogs all over the world.

Jack completed high school in Watrous before moving to Saskatoon where he obtained a Bachelor of Civil Engineering from the University of Saskatchewan in 1945. After a brief time with the Saskatchewan Highways Department in 1946, Jack moved on to obtain a Masters of Science in Civil Engineering from Purdue University in 1947 and then a Doctor of Philosophy from Cornell University in 1952. While at Perdue and Cornell universities Jack studied under Dr. Donald Belcher, a pioneer in terrain interpretation using stereoscopic aerial photographs.

Following completion of his doctorate degree, Jack joined the Prairie Farm Rehabilitation Administration (PFRA) in Regina. As PFRA's chief air surveys engineer, Jack conducted airphoto and site investigations for the many dams and water resource development projects constructed by PFRA in western Canada at that time. Among other projects, he made a significant contribution to geological and engineering studies to locate Gardiner Dam, which was completed in 1966. At that time, Gardiner Dam was the largest earthfill dam in Canada and one of the largest in the world. This and other PFRA water development projects formed the foundation for development of a vibrant agricultural economy in Saskatchewan in the years following the great depression. From 1953 to 1956 Jack served as an advisor to the Shaw Royal Commission on

Newfoundland agriculture and as a technical advisor on aerial resource mapping to the governments of Ceylon and Pakistan

Jack started his Regina-based consulting firm, J.D. Mollard and Associates Limited, in 1956. Located in Regina throughout its history, the firm has undertaken more than 5,000 consulting assignments in applied airphoto and satellite image remote sensing over the past 48 years. Those projects cover a wide range of applications -- exploring for aggregates, hydrocarbons and minerals, conducting geoenvironmental studies, mapping natural hazards, selecting route and site locations, and conducting groundwater studies -- in a wide range of terrain. Jack has undertaken studies on six continents and even Mars. In Saskatchewan, Jack has found and developed groundwater supplies for over 150 communities and municipalities and has located aggregate sources for construction projects throughout the province.

Jack has generously shared his knowledge and experience in over 100 short courses and workshops across Canada and in the USA, and has published over 125 technical and scientific papers. Early in his career he was invited by Dr. Karl Terzhagi to lecture at Harvard. He holds the record for longevity at the University of Alberta extension department, having lectured there for over 40 years.

Jack's work has been widely recognized over the years. In 2002 he was named an Officer of the Order of Canada and he received the Lieutenant-Governor of Saskatchewan's Meritorious Achievement Award. He has also received the Julian Smith Medal from the Engineering Institute of Canada for achievements in the development of Canada, the Allied Arts Medal from the Royal Architectural Institute of Canada, the Massey Medal from the Royal Canadian Geographical Society, an honorary Doctor of Laws from the University of Regina plus many other major awards. These awards clearly illustrate the significance of his contributions to the engineering and geoscience communities in Saskatchewan and beyond.

Jack is a fellow in eight professional societies and associations, and his name appears on five Who's Who lists.

These achievements notwithstanding, Jack is perhaps best known for his passionate interest in interpreting the Earth's physical geography, geoenvironment and natural resources from airphotos and satellite images, and for his infectious enthusiasm. An induction to the SGS 2005 Honour Roll is a well-deserved honour for Jack's many contributions to his profession and to Saskatchewan.

Sincerely,  
Lynden Penner  
George Mollard  
Troy Zimmer  
Jason Cosford