GERALD (GERRY) HUBER, P.E.
Associate Director of Research
Heritage Research Group



EDUCATION
MSCE, Civil Engineering, University of Texas, 1984
B.S., Civil Engineering, University of Saskatchewan, 1978

APPOINTMENTS
Associate Director of Research, Heritage Research Group, 1992 – Present
Associate Director of Research, The Asphalt Institute, 1989 – 1992
District Engineer, The Asphalt Institute, 1988– 1989
Assistant Surfacing Engineer, Saskatchewan Highways and Transportation, 1982 – 1988
Transportation Planner, Saskatchewan Highways and Transportation, 1980 – 1982
Resident Engineer, Saskatchewan Highways and Transportation, 1978 - 1980

PROFESSIONAL LICENSES
Professional Engineer Registered in the Province of Saskatchewan (No. 4278)

AREAS OF RELEVANT EXPERIENCE
Throughout Mr. Huber's career, he has accumulated experience in mix design and mixture volumetric properties. As Assistant Surfacing Engineer at Saskatchewan Highways he was responsible for updating Marshall mix design standards. This work was presented to the Association of Asphalt Paving Technologists in 1988 and won the Emmons Award for best paper of the conference. While working at the Asphalt Institute, Mr. Huber was a member of the lead team for the Strategic Highway Research Program and contributed to development of Superpave mix design that adapted volumetric properties from Marshall mixture design. In 2003 he contributed to the development of PWL specifications for the Indiana Department of Transportation. More recently, Mr. Huber has collaborated to develop Superpave5, a modification to the original Superpave specification that allows achievement of high in-place density while maintaining rutting and cracking resistance. Superpave5 has been adopted by the Indiana Department of Transportation and is being evaluated by other states. As part of Superpave5 adoption, acceptance criteria were modified, and Mr. Huber evaluated data from Superpave5 trial to establish new Quality Limits used for acceptance.

SELECTED PUBLICATIONS

Saleh, Nooralhuda; DeCarlo, Katie; Underwood, B. Shane; Pine, William; Huber, Gerald; Tran, Nam; West, Randy and Kim, Richard, "Case Studies of Asphalt Pavements Quality Assurance Specifications, Performance-Related Specifications, and Performance-Based Specifications", Transportation Research Board Annual Meeting, Washington, DC, January 2023.

Huber, Gerald, Beeson, Matthew, Pine, William and Campbell, Christopher, "Asphalt Mix Design and Acceptance Specifications: Ensuring Adequate Asphalt Binder Content", Canadian Technical Asphalt Pavement Association, November 2021.

Tran, Nam; Yin, Fan; Leiva, Fabricio; Rodezno, Carolina, Huber, Gerald and Pine, William, "Volumetric Mix Design Adjustments for Improving Asphalt Mixture Durability", Transportation Research Board Annual Meeting, Washington, DC, January 2021.

Hekmatfar, Ali, Shah, Ayesha, Huber, Gerald, McDaniel, Rebecca and Haddock, John, "Modifying Laboratory Mixture Design to Improve Field Compaction", Association of Asphalt Paving Technologists, Portland, Oregon, March 2015.

Kennedy, TW; Huber, GA; Harrigan, ET; Cominsky, RJ; Hughes, CS; Von-Quintus, H; Moulthrop, JS, Superior Performing Asphalt Pavements (Superpave): The Product of the SHRP Asphalt Research Program, Strategic Highway Research Program Report SHRP-A-410, Washington, DC (1994)

Huber, G.A.., "Steps to a Mix Design Solution for Better Asphalt", Pacific Rim TransTech Conference, Seattle, Washington (July 1993).

Kennedy, T.W., Moulthrop, J.S. and Huber G.A., "Development of SHRP Mixture Specification and Design Analysis System." Association Of Asphalt Paving Technologists, Austin, Texas (March 1993).

Huber, G.A., and Shuler, T.S., "Providing Sufficient Void Space for Asphalt Cement: Relationship of Mineral Aggregate Voids and Aggregate Gradation", *Effects of Aggregates and Mineral Fillers on Asphalt Mixture Performance*, ASTM STP 1147, Richard C. Meininger, editor, American Society for Testing and Materials, Philadelphia (1992)

SELECTED HONORS AND AWARDS

- Norman W. McLeod Award for the 2021 Canadian Technical Asphalt Association Meeting Virtual
- Norman W. McLeod Award for the 2019 Canadian Technical Asphalt Association Meeting in Montreal, Quebec
- Walter J. Emmons Award for the 2016 AAPT Annual Meeting in Indianapolis
- Norman W. McLeod Award for the 1999 Canadian Technical Asphalt Association Meeting in Winnipeg, Manitoba
- Norman W. McLeod Award for the 1988 Canadian Technical Asphalt Association Meeting in Toronto, Ontario
- Walter J. Emmons Award for the 1988 AAPT Annual Meeting in Reno, Nevada

PROFESSIONAL ACTIVITIES

- Associate Editor, Transportation Research Record, 2018 to date
- Chairman of the International Society of Asphalt Paving, 2008
- President of the Association of Asphalt Paving Technologists, 2000
- Chairman of the Canadian Technical Asphalt Association, 1989
- Member of Federal Highway Administration (FHWA) Expert Task Groups for asphalt mixture