

2007

# Leadership in Engineering

[www.DesignWorldOnline.com/Leadership](http://www.DesignWorldOnline.com/Leadership)
**Design World**

## Leadership in Engineering: 56 Years of Innovation

**B**ud Wisecarver and the Bishop-Wisecarver engineering team support companies around the world by leveraging state of the art technologies to improve performance and design optimization by incorporating their engineering expertise and patented technologies.

### About Bud Wisecarver: An Engineering Difference

Bud has always had the knack for inventing, carrying two prominent themes throughout his life — motion and innovation. As a young boy, he spent a lot of his time building coasters, electric bicycles and cars. He even created parts when supplies were hard to come by. As a young man making his way through college while working in a truck body fabricator's shop, Bud created and built truck accessories such as folding dollies and loading ramps. He then owned a small screw machine business where he produced wheel bush-

ings for the Nike missile project and parts for a product that secured bread trays. He also designed and patented Saf-T-Sta cargo bars and a specialized bread tray known as Fol-Carrie which launched him into the manufacturing business.

Bud began toying with the design for DualVee® in the late 1960s when he was asked to design a fertilizer packaging machine for an oil company. He built the application with flat rollers. However, when he saw how filthy the packaging stations were and how the flat rollers were constantly clogging the machinery, he redesigned the machine to run on Vee guide wheels. It wasn't long after, that Bud designed a two-sided Vee guide wheel while watching a Raiders football game. DualVee was awarded a patent in 1972.



## About Bishop-Wisecarver Corporation

**F**ounded in 1950, Bishop-Wisecarver is a family owned manufacturing company and recognized world leader in guide wheel technology. In 1967, co-founder Bud Wisecarver invented DualVee Motion Technology® (DMT) which consists of three main components (1) the DualVee guide wheel, (2) its mating profile track with patented mounting shoulder, and (3) support bushings. DMT is one of the most popular guided motion technologies due to its self-cleaning action and self-aligning track, which result in lower overall installation and maintenance costs. DMT applications range from clean rooms to saw mills and are used in a wide variety of applications in thousands of sites worldwide. The PTDA Power Transmission Handbook recognizes DualVee Motion Technology as an industry standard.

### Engineering Innovation: DualVee

The design proved to be extremely versatile and it was realized that DualVee could be used in other industry applications such as automotive, machine tool, paper processing, textile, and general industrial automation where traditional guidance technologies were ineffective.

The success of DualVee led to the design and development of other Bishop-Wisecarver brand names including LoPro®, QuickTrak®, MinVee®, and UtiliTrak®. The DualVee guide wheel-based products are quiet, ideal in long length applications, and tolerant of harsh environments. LoPro actuated linear systems are available in belt, chain, lead screw and ball screw configurations. QuickTrak belt or lead screw driven linear actuators are an ideal choice for lighter duty applications exposed to harsh lab chemicals. The low profile MinVee miniature linear slide is ideal for semiconductor, laboratory, medical and packaging applications. The non-actuated UtiliTrak offers a compact, economical solution where smooth, high speed motion is required.

Today, Bishop-Wisecarver Corporation's team of engineers, led by Stephen Fournier, continues to develop new products, including, most recently, patent

pending DualVee integral wheels and a bearing for food and beverage production applications.

For over 56 years, Bishop-Wisecarver has been solving our customers' most demanding application challenges. Our engineering team's ability to design each individual system according to customer specifications allows us to accommodate most anything from slight product modifications such as non-standard length, bearing or grease requirements to complete custom-designed solutions.

And, after all these years, you can still find Bud in the plant working diligently on his next invention. ■

**VOTE ONLINE AT:**  
[www.designworldonline.com](http://www.designworldonline.com)  
 Nominate engineering leadership for a person or inventor, engineering leadership by a specific department, or an overall company accomplishment.

