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Singapore - October 3, 2016 - Kemin Animal Nutrition and Health Asia Pacific organized a swine technical seminar and LYSOFORTE™ roadshow for swine customers in cooperation with local distributors in Malaysia, Indonesia and Singapore.

Seminar topic: Sow and Piglet's Nutrition and Management

Dr. Yoo Yong Kim, a renowned professor from Seoul National University in Korea, presented new insights in sow and piglet nutrition and management. He emphasized the importance of controlling body weight and body fats of healthy sows. He also said that desirable weaning age is between 28 and 30 days to support the sow's reproductive longevity.

Based on expertise and experience from managing his own 500 sow-level farm, Dr. Kim reiterated that a batching system be adapted in mating, farrowing and weaning to better monitor the performance of the pigs. He further said that "all-in, all-out" production strategy wherein animals were transferred to and from facilities in distinct groups, would be a good add-on to bio-security and as a means to control the spread of diseases.

Moreover, Dr. Kim shared the importance of optimizing the raw materials used in pig diets. He shared the benefits of NSP enzymes and bio-emulsifiers in helping to manage feed costs through their energy sparing effect. Based on his cost calculation, he noted that he could save more than 10% of the total feed cost or 100 kcal/kg of ME by incorporating bio-emulsifiers.

Overall, his tips on managing the sows and piglets were to better the environment and provide well-balanced and optimized diets and good biosecurity programs. They, in turn, helped achieved a sustainable and profitable swine operation.

At the seminar Kemin shared research updates on its leading bio-emulsifiers, LYSOFORTE™. LYSOFORTE™ saves feed cost by enhancing feed digestibility and improving growth performance.

Dr. Sugumar and Ms. Esperida, experts on lipid nutrition, presented the updates on LYSOFORTE $^{\text{\tiny M}}$. They demonstrated that LYSOFORTE $^{\text{\tiny M}}$ improved fat and oil digestibility by more than 10% and boosted the digestibility of saturated and unsaturated fatty acids. LYSOFORTE $^{\text{\tiny M}}$ can spare dietary fat up to 1% in swine diets and lowers feed costs by 10% through more efficient use of nutrients.

LYSOFORTE™ is a powerful bio-emulsifier that enhances fat emulsification action of bile salts in the gut, and improves nutrient transport through better micelle formation. Poor fat digestibility is a common problem in piglets and LYSOFORTE™ helps to digest and assimilate fat, thereby lowering fat excretion in feces and improving fecal texture. Moreover, LYSOFORTE™ helps reproductive animals to maintain their backfat reserves and produce higher litter weight at weaning. For more information about LYSOFORTE™, visit Kemin.com.

Kemin - Inspired Molecular Solutions™

Kemin (https://www.kemin.com/) provides "inspired molecular solutions" specifically developed to provide nutrition and health benefits for humans and animals. Committed to feed and food safety, Kemin maintains top-of-the-line manufacturing facilities where approximately 500 specialty ingredients are made for the global feed and food industries as well as the health, nutrition and beauty markets. A privately held, family-owned and operated company, Kemin has nearly 2,000 employees and operates in 90 countries with manufacturing facilities in Belgium, Brazil, China, India, Italy, Singapore, South Africa and the United states.

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