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Continued from page 54

ing technologies could harness this effect for industrial applications, he said. "First, we have created a computational design tool that lets us start with the application parameters — machine speed, lubricant type, and so on — and choose the optimal microstructures. Second, we have developed a low-cost manufacturing technique to put these microstructures onto machine components."

King and his team have fabricated micro-patterns on large surfaces of different shapes, including curved ones, and on many metals including stainless steel, cast iron, nickel alloys and tool steels. They are interested in working with companies which may have applications in mind for the research findings. For further information, see www.ccefp.org, Project 1D, "Micro-and Nano-Texturing for Low-Friction Fluid Power Systems," or e-mail CCEFP Director Dr. Kim Stelson (kstelson@umn.edu) or King at wpk@illinois.edu.

LIFE On the NYCO Synlube Newsfront

NYCO Announces Two New Products* for the Food Lubricants Industry
NYCOBASE Food Grade Ester • NYCOLUBE Oven Chain Oil



NYCOBASE 45004FG Food Grade ester is suitable for blending with other components to make food grade H-1 lubricants. NSF HX-1 registered, it is used in hydraulic fluids, gear oils, oven chain oils and greases.

NYCOLUBE 5850FG fully formulated oven chain oil is ISOVG 220 and NSF H-1 registered for incidental food contact. Based on complex neopolyol esters, it is recommended for applications up to 240°C. Contains HX-1 additives, and its formulation of oxidation stable esters provides resistance to oxidation and coking. Also has excellent adhesion properties as well as low volatility.

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Venture Promises Green Surfactants

Will technology from the Yale's Center for Green Chemistry and Green Engineering lead to improved emulsifiers for industrial lubricants? That's the thinking of P2 Science Inc., a new company which has set up a laboratory in New Haven, Conn., to develop and commercialize surfactants based on naturally occurring carbohydrates such as corn syrup, sugar, soy and palm oil. It sees potential applications ranging from consumer to industrial uses, including lubricants, metal-working fluids, cleaners, mining and oilfield chemicals and others.

Based on chemicals called c-glycosides, the largely nonionic surfactants can be mild in use, stable, customizable and manufactured in low energy intensive conditions, the company says. Patrick Foley, the lead Yale inventor in the c-glycoside field, is P2's chief scientific officer, and Neil Burns, a 20-year veteran of

the surfactants and oleochemicals industry, is the company's founding CEO. Elm Street Ventures supplied financing for P2's startup.

Briefly Noted

KBR will help build the new polyalphaolefin plant at **ExxonMobil's** Baytown, Texas, refinery and chemicals complex. When completed in 2013, the facility will make ExxonMobil Chemical's high-viscosity metallocene PAO base stock. **Technip USA** is the prime contractor responsible for engineering, procurement and construction, while KBR will provide site work, civil, structural, pipe, electrical, instrumentation and mechanical installation, test and checkout services for the new facility.

Polaris Laboratories, the Indianapolis-based fluid analysis provider, has added a new laboratory in Guatemala City, its sixth facility since 1999. **Polaris Tribology Laboratory Central America S.A.** also will cover parts of Mexico and northern South America, serving customers involved in road transport, power generation, industrial, mining and construction, and agricultural applications such as the region's sugar cane industry.

Lubricants marketer **MAL Pakistan** is building a \$3.3 million lubricants blending plant in Karachi, Pakistan, which will have a production capacity of 33 million liters of lubricants per year. It will also include a laboratory, logistics center and a customer training center. MAL Pakistan markets Mobil branded lubricants in the country, and has an existing blending plant there in Hub, Baluchistan.

Arizona Chemical has established a legal entity for doing business in China. The new Shanghai-based Arizona Chemical Ltd. is a Chinese trading company that provides local sales, marketing, technical and supply chain services to its Chinese customers. Thanks to the new entity, customers there now can place orders directly, take deliveries and transact in Chinese RMB.

Faces in the News

Whitmore Manufacturing Co. named **Jeff Kilpatrick** president and CEO, effective Jan. 3, replacing **Jeff Peterson**, who returned to parent company Capital Southwest Corp. Kilpatrick joins the Rockwall, Texas, specialty lube manufacturer after seven years with Media Recovery Inc. (another Capital Southwest portfolio company), and

has prior experience with Saxon Publishers, Sprint Corp. and Arthur Andersen.

James V. Mustacchio, director of business development at Nyco America, was named CEO on Jan. 1. He takes over from **William D. Manning**, who retired at the end of 2011. Prior to joining the company, Mustacchio had a long career with

Continued on page 59



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