Plugged In



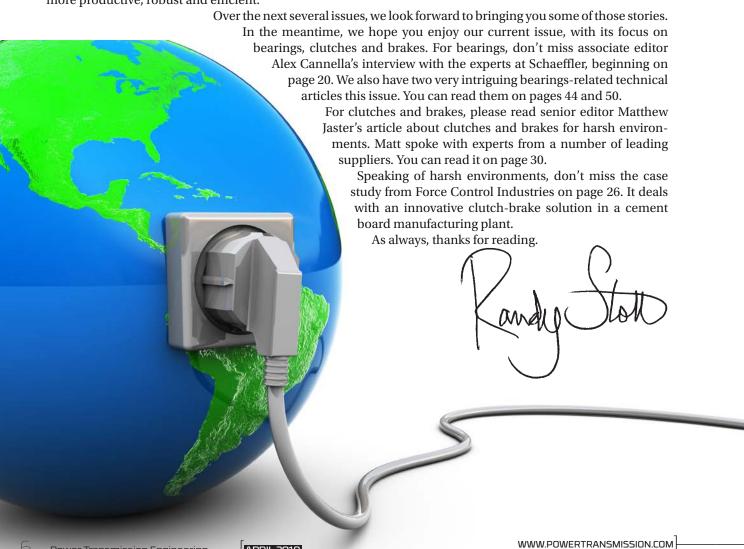
At the recently concluded Automate 2019 and Promat trade shows (held in Chicago in April), we saw a lot of new technology aimed at mak-

ing factories more efficient and productive. The Industry 4.0 concept continues to evolve, and the Industrial Internet of Things (IIoT) continues to expand the way we design, manufacture and maintain mechanical equipment.

Bearings, gearmotors and gear drives are no longer just dumb components, tasked with doing the same job over and over. Power transmission components are getting plugged in. They're being fitted with sensors, encoders and controls that allow information about their performance to be collected, analyzed and acted upon.

And we're not talking about academic endeavors here, either. Real-time information about temperature, vibration, torque and speed is making its way into the hands of plant managers and maintenance professionals via their cell phones and tablets. Failures are being anticipated and planned for, and productivity is being maintained.

That same information is being collected, sent to the cloud and analyzed by artificial intelligence, so that engineers designing the next generation of systems are equipped with the data they need to make those systems more productive, robust and efficient.



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