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## The 800-km Battery

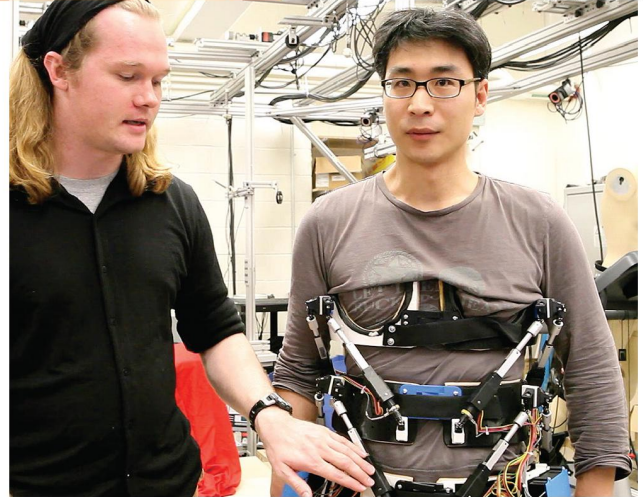
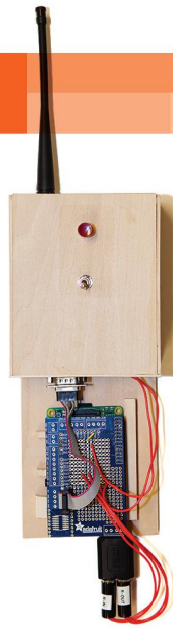
To go the distance, electric cars need the next-gen battery: lithium-air. **By Winfried W. Wilcke & Ho-Cheol Kim**

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On the Cover Photograph of Sloane Stephens by Dylan Coulter; graphics by John LePore



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Online

## Spectrum.ieee.org

**Video: Robotic Spine Brace**

A dynamic exoskeleton gathers data from the human spine that could provide clues for a more effective treatment of scoliosis. Watch our story on the technology here: <http://spectrum.ieee.org/spinebrace0316>

## ADDITIONAL RESOURCES

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Available at [spectrum.ieee.org/webinar](http://spectrum.ieee.org/webinar)

- ▶ Nonlinear Magnetic Materials With COMSOL Multiphysics—Available On Demand
- ▶ Grid Resiliency and Stability With Siemens Transformers—Available On Demand
- ▶ Signal Integrity: VNA Applications—Available On Demand
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- ▶ **WHITE PAPERS**  
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- ▶ **GREEN ICT** The greenhouse-gas emissions produced globally by information and communication technology (ICT) account for more than 2 percent of the worldwide total—and that percentage is expected to double by 2020. This month we feature the efforts by IEEE and its members to make systems more energy efficient.
- ▶ **MEDAL OF HONOR** Life Fellow G. David Forney will receive IEEE's highest award this year, for pioneering contributions to error-correcting codes and reliable high-speed communications.
- ▶ **STARTUP STAR** Entrepreneur and IEEE Member Eileen Healy founded a pair of multimillion-dollar companies to address the growing needs of the mobile phone market. Read about her journey in the latest installment of our series on startups.

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