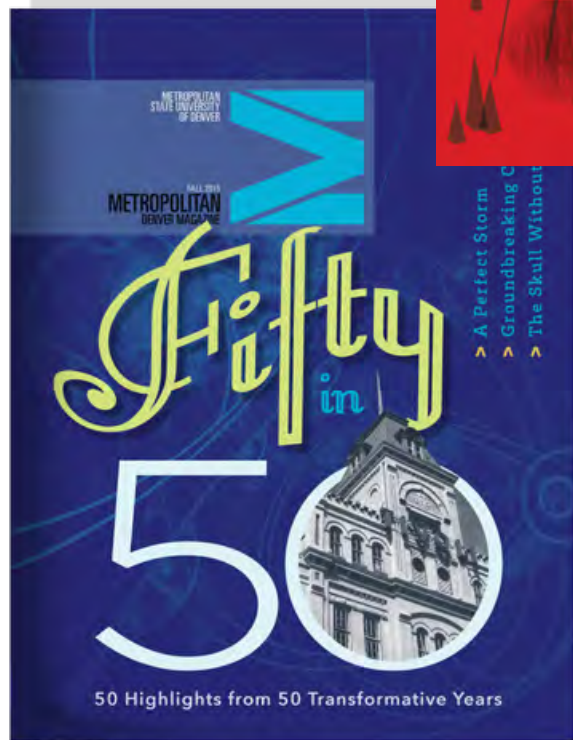


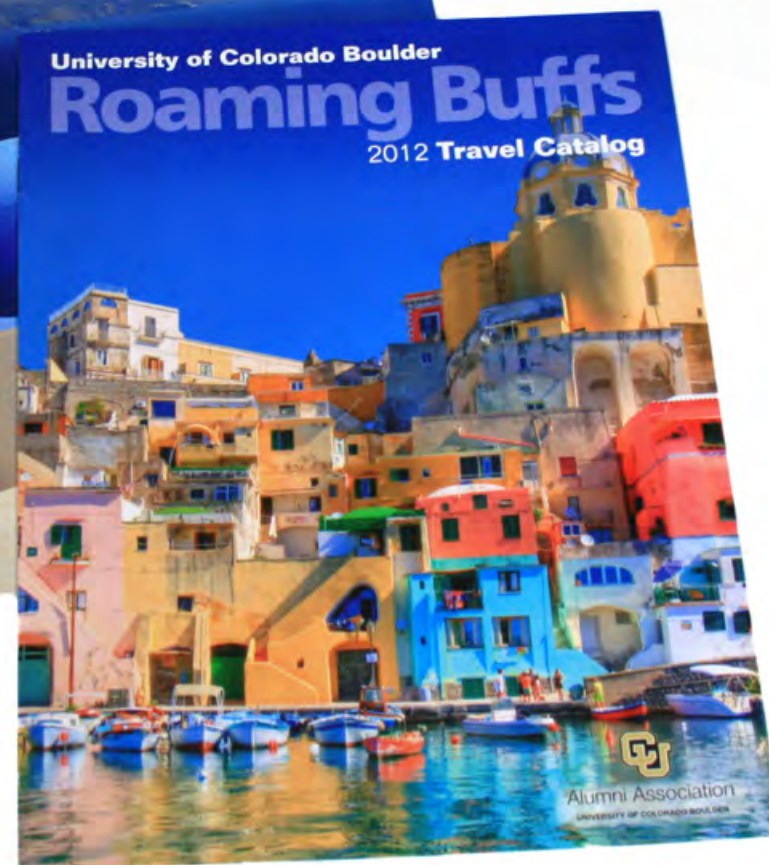
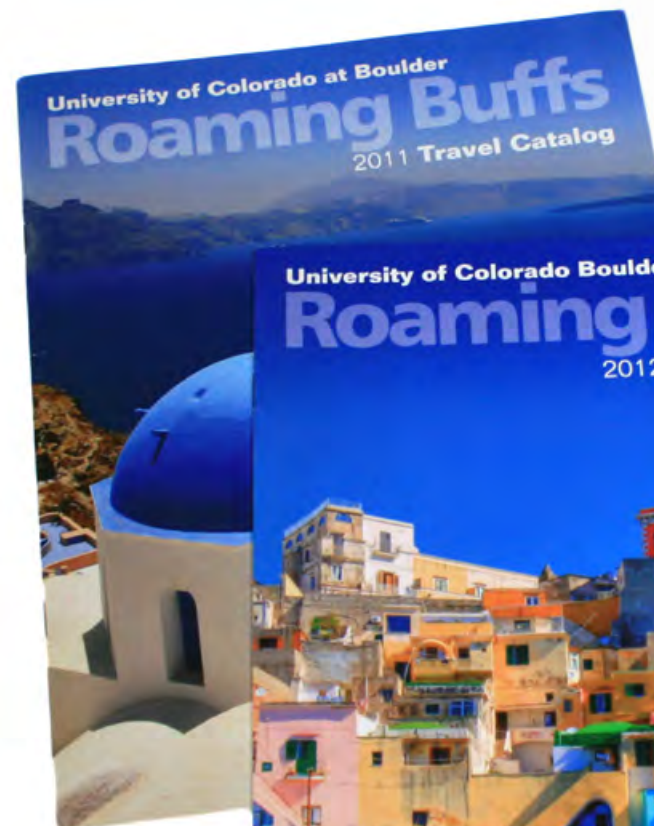


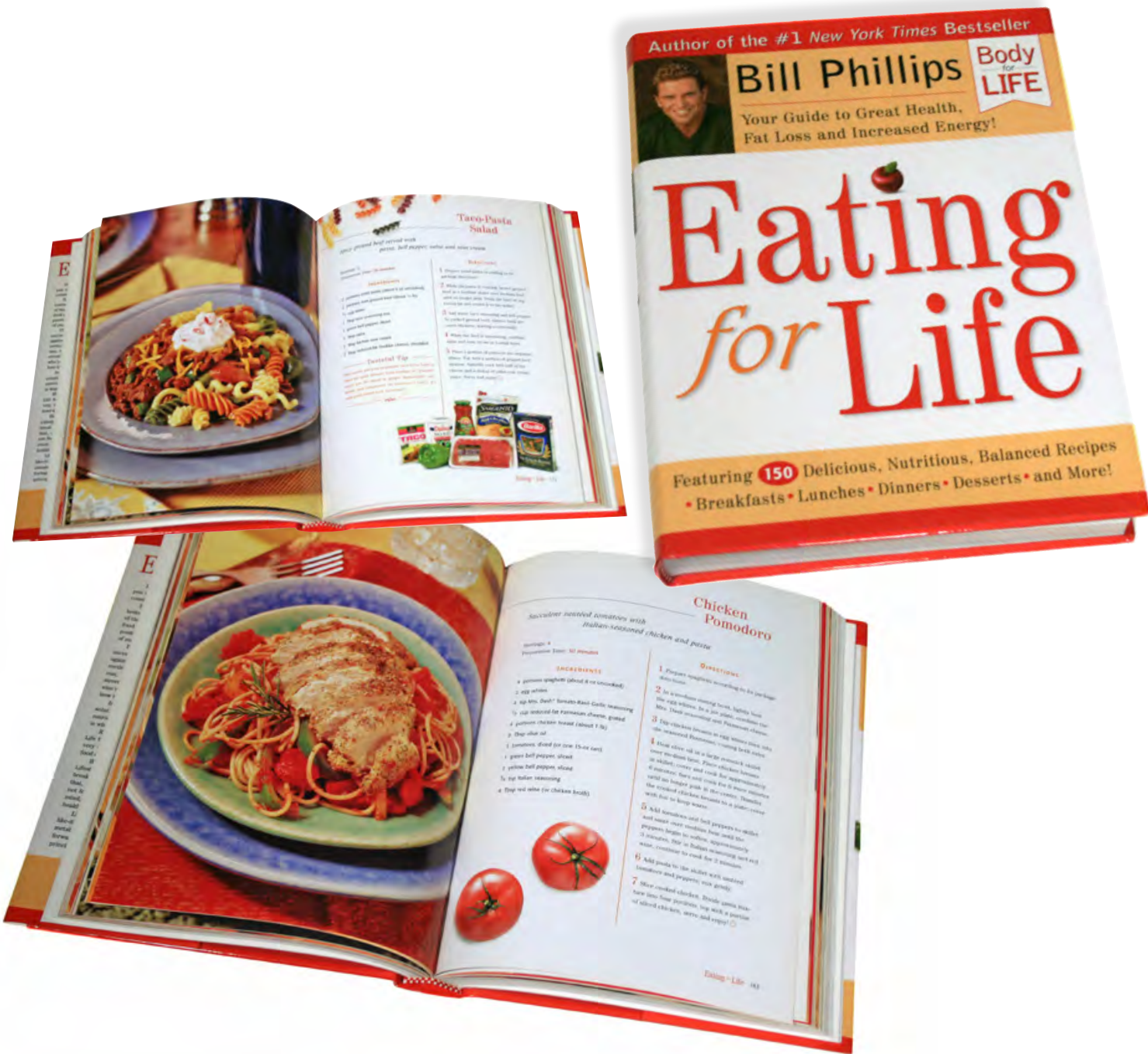
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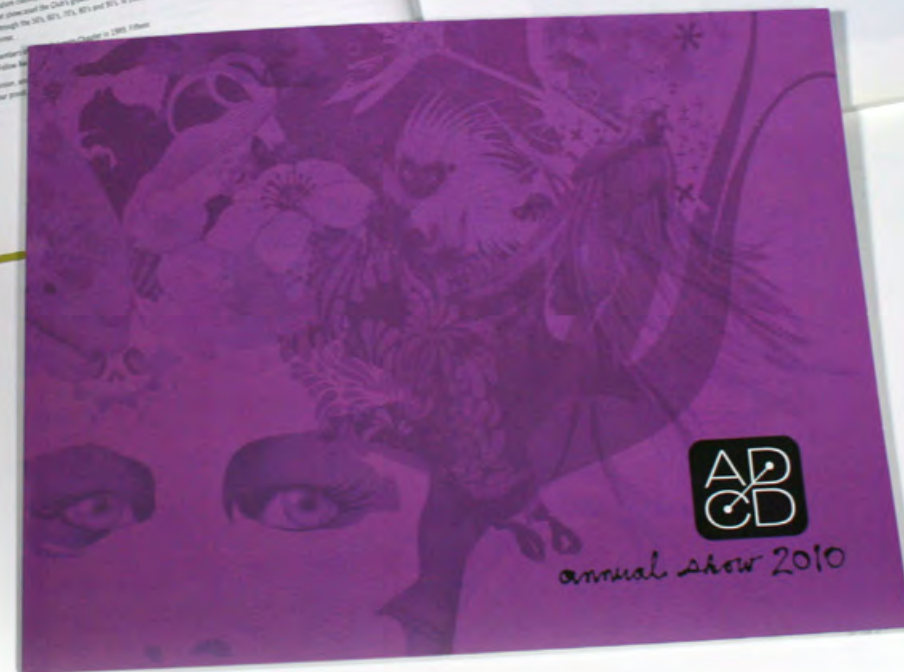
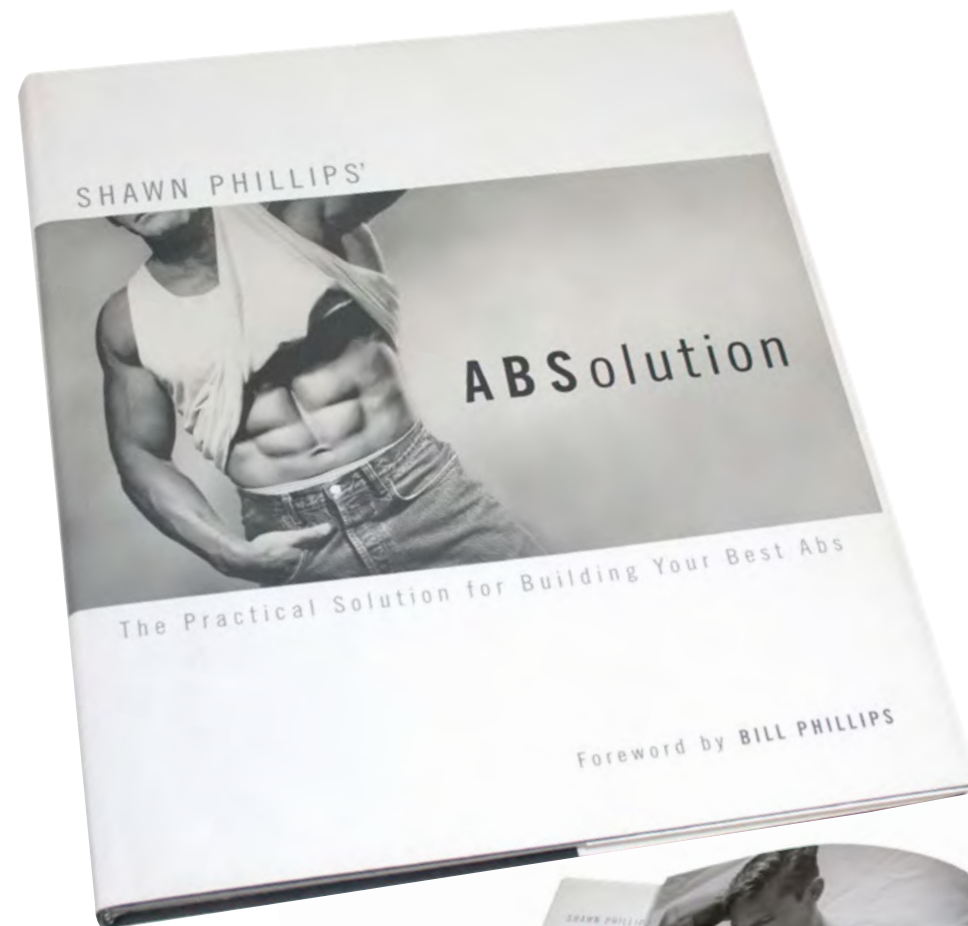
Publication Design | **Craig Korn**





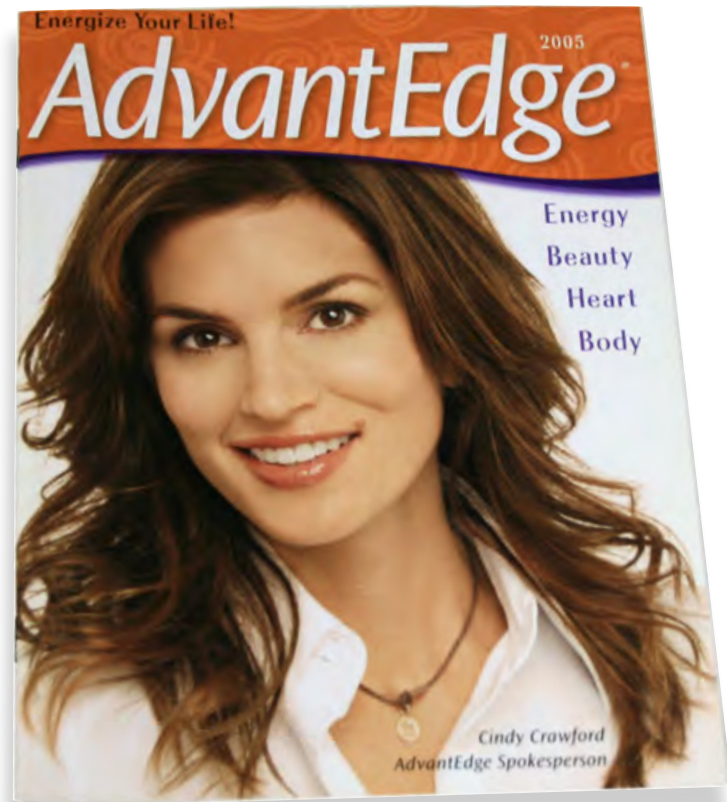


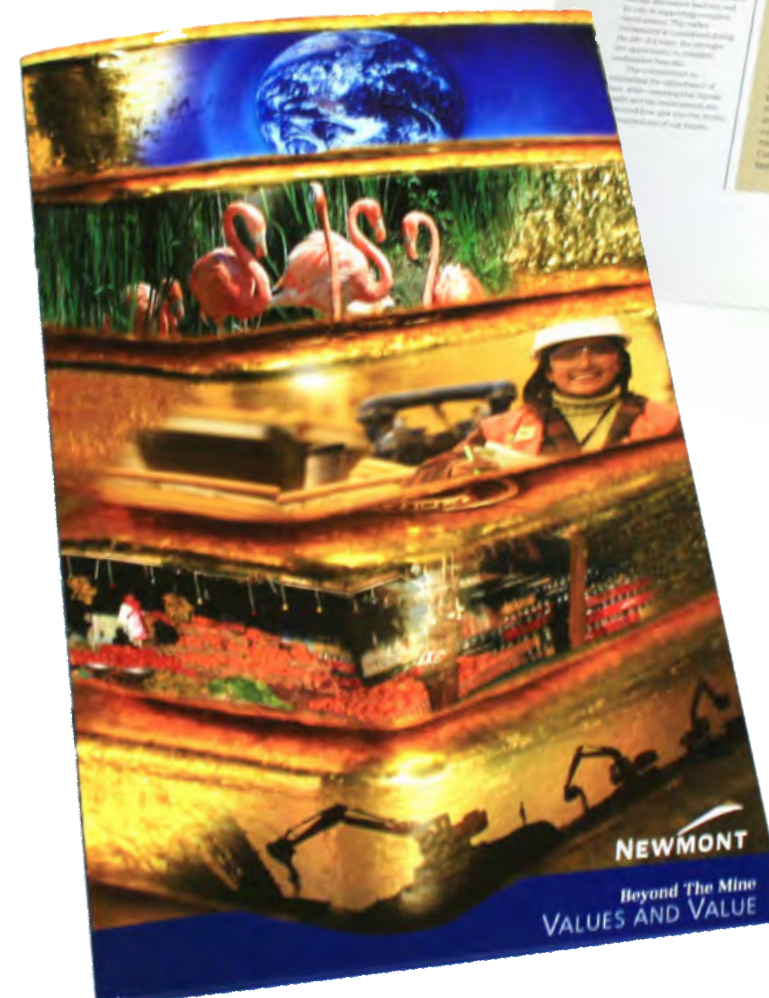


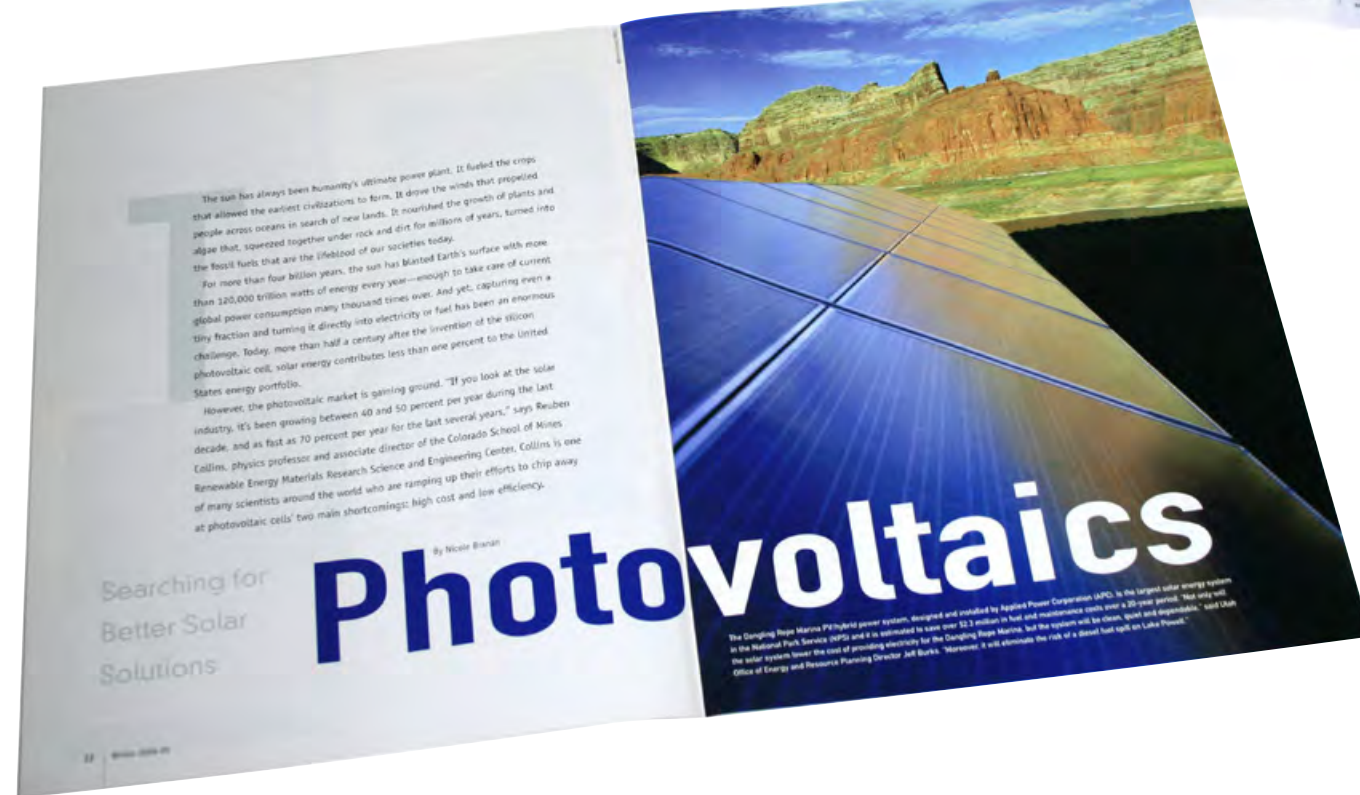
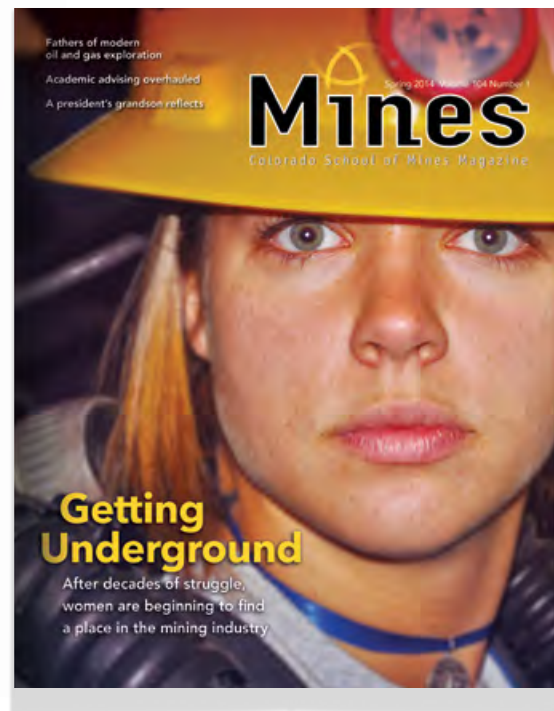


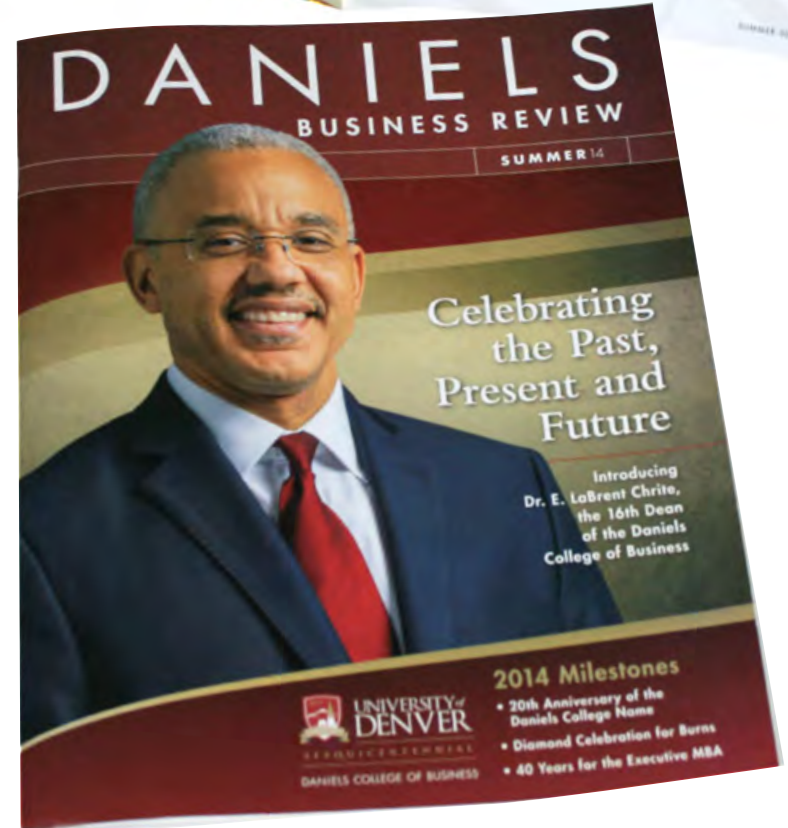
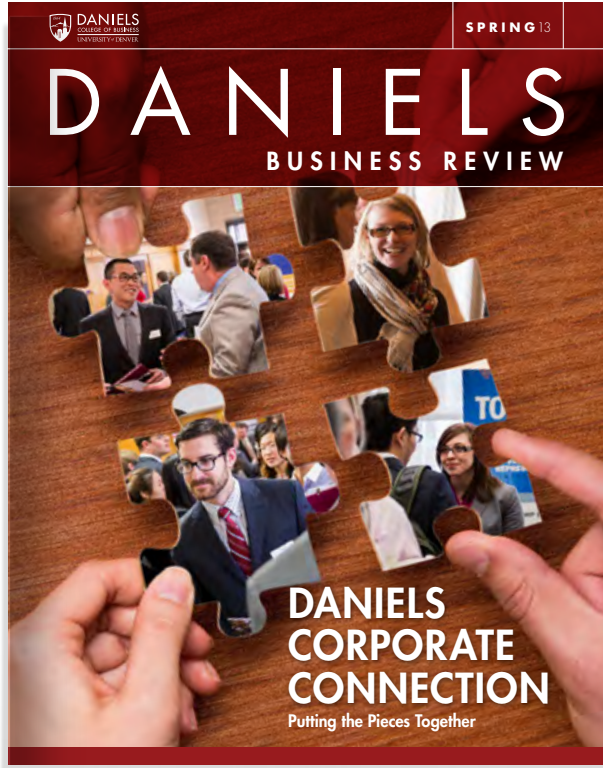




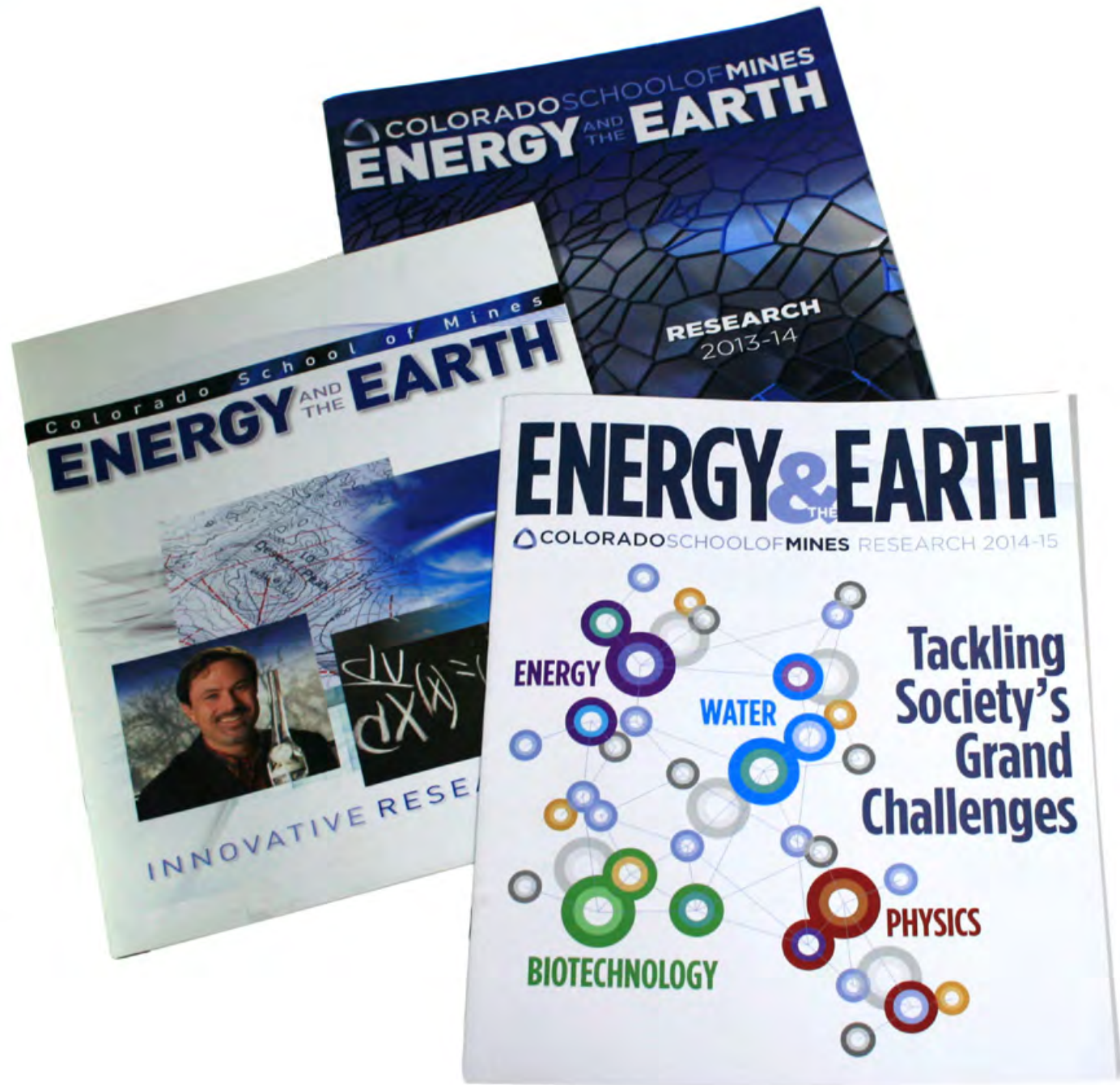


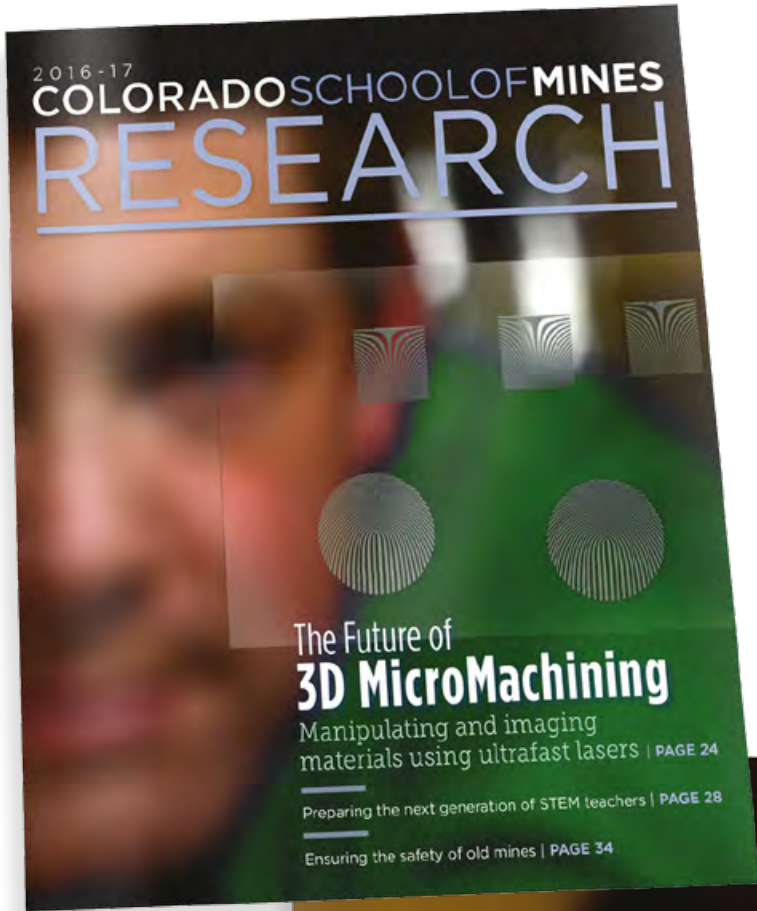












Seeing as machining

A single team in the basement of the Mines General Research Laboratory has advanced the state of the art in what might seem two very different realms: machine tools and microscopes

These aren't your typical saws, lathes and presses—and it's far from your average microscope. Jeff Squier and his team do their machining with lasers, and they have combined a microscope of their own design into a single system that promises to improve everything from eye surgery to 3D printing, and at the tiniest scales.

Squier, a Mines professor and chair of the Department of Physics, leads a group whose system combines ultrafast-laser micromachining with microscopy capable of observing and guiding the laser's work in real time. They have broken new ground in both disciplines to enable a unified system capable of cutting, shaping and transforming across a wide range of dimensions deep inside translucent materials while observing and guiding the process.

"We're combining the imaging with the machining for the first time," Squier said. "That's really powerful."

