

onto thin, bendable surfaces," Sun said. "The objective of our work was to generate a concept along with subsequent technology that would allow for electronic wires and circuits to stretch like rubber bands and accordions leading to sensor-embedded covers for aircraft and robots, and even prosthetic skin for humans.

"We are presently developing stretchable electronics and sensors for smart surgical gloves and hemispherical electronic eye imagers," he added.

The team of researchers has been successful in fabricating thin ribbons of silicon and designing them to bend, stretch and compress like an accordion without losing their ability to function. The detailed results of these findings were published in the Journal of Materials Chemistry paper, " Structural forms of single crystal semiconductor nanoribbons for highperformance stretchable electronics," which is available online at

http://www.rsc.org/Publishing/Journals/JM/article.asp? doi=b614793c_

Before coming to Argonne in August of 2006, Sun worked as a research associate under John A. Rogers at the University of Illinois at Urbana-Champaign where this project was first initiated. With the opening of Argonne's Center for Nanoscale Materials late last year, he was attracted by the facility's ability to enhance scientists' investigations in the properties of materials at nanoscale dimensions.

The Center for Nanoscale Materials at Argonne integrates nanoscale research with Argonne's existing capabilities in synchrotron X-ray studies, neutronbased materials research and electron microscopy with new capabilities in nanosynthesis, nanofabrication, nanomaterials characterization, and theory and simulation.

With the many resources at Argonne at his disposal, Sun plans to expand his research to focus on applications in other biological and chemical sensors.

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