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## Working at CSU

### Bartels elevated to APS Fellow for work with lasers

December 31, 2013

*Randy Bartels has been named a Fellow of the American Physical Society, an honor achieved by less than 1 percent of the organization's 50,000-plus members.*

Bartels, a professor in computer and electrical engineering, is developing new high-speed microscope imaging and spectroscopic techniques to visualize the behavior of tissues and molecules in biological systems.

These advances often require new laser sources, which Bartels and his colleagues also develop.

His research group recently demonstrated 3D imaging with nonlinear second harmonic generation at speeds many orders of magnitude faster than current technology.

#### Past awards

During his career, Bartels has gained international recognition as a leader in his field.

In 2006, he received the Presidential Early Career Award, the U.S. government's highest honor for outstanding up-and-coming scientists and engineers. He also is a Kavli Fellow of the National Academies of Science and a recipient of the Sloan Research Fellow in physics, one of the oldest and most prestigious research honors in the nation.

He received the Beckman Young Investigator Award from the Arnold and Mabel Beckman Foundation; the Optical Society of America Adolph Lomb Medal; the IEEE Photonics Society Young Investigator Award; an Office of Naval Research Young Investigator Award; and a National Science Foundation Faculty Early Career Development Award. He also is a Fellow of the Optical Society of America.

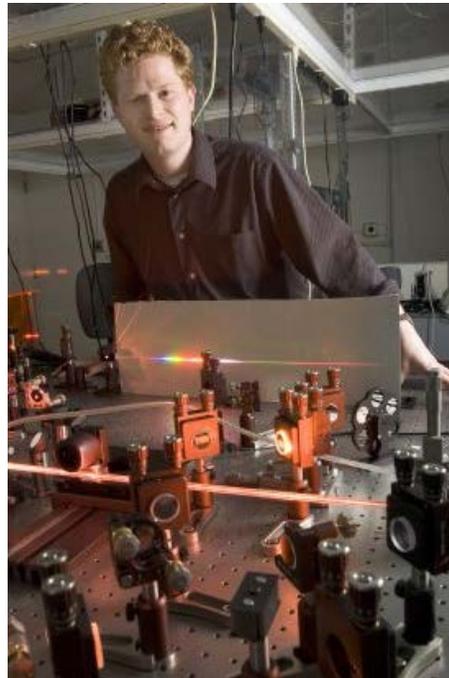
Bartels is a past recipient of the prestigious Monfort Professor Award, one of CSU's top honors.

#### APS selection criteria

The criteria for election as an APS Fellow are exceptional contributions to the physics enterprise, such as outstanding physics research; important applications of physics; leadership in or service to physics, or significant contributions to physics education.

Bartels received the honor for advances in precision temporal, spatial and spectral control of optical and x-ray pulses, the control of quantum wave packets via sculpted light fields, and optical microscopy.

[The American Physical Society](#) is a nonprofit membership organization working to advance and diffuse the knowledge of physics through its outstanding research journals, scientific meetings, and education, outreach, advocacy and international activities.



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