

*PhysOrg.com, October 2004*

# Scientists Demonstrate First Silicon Laser

*“Researchers at the University of California Los Angeles (UCLA) have demonstrated the first silicon laser, which could lead to more effective biochemical detection, secure communications and defense against heat-seeking missiles.”*

*“This development shows that despite popular belief, a laser can indeed be made on a silicon chip.” said Bahram Jalali.*”

*“Demonstration of the silicon laser by UCLA researchers is a major breakthrough that can make optical wireless a reality.”*

*“Jalali said, “Our approach uses the natural atomic vibrations of silicon to create or amplify light. This is significant because no special impurity or complicated device structure is needed.”*