

Call for papers:

Single-Photon Workshop 2013

Sources, Detectors, Components, and Applications

Oak Ridge National Laboratory

October 15-18, 2013

Oak Ridge National Laboratory is pleased to announce Single-Photon Workshop 2013, the sixth and latest installment in a series of workshops on single-photon technologies and applications. Single-photon technologies are vital to applications such as quantum cryptography, quantum information processing, quantum imaging, and quantum metrology. Fields such as astrophysics, nuclear physics, and biology also benefit from developments in single-photon technologies.

SPW 2013 is intended to bring together a broad range of people with interests in single-photon sources, single-photon detectors, photon entanglement, and their incorporation into scientific and industrial tools. Researchers from universities, industry, and government will report on the latest developments in single-photon devices and methods with a view toward improved performance and new application areas. It will be an exciting opportunity for those interested in single-photon technologies to learn about the state of the art and to foster continuing partnerships with others seeking to advance the capabilities of such technologies.

Topics of interest:

Single-Photon Sources

Single-Photon Detectors

Entanglement

Sensing & Measurement

- *Imaging and other Sensing Applications*
- *Weak Measurements*
- *Characterization of Single Photons*

Photonic Quantum Information Processing

Quantum Communication and Security

- *Practical Long-Distance QKD*
- *QKD Hacking*
- *Quantum Random Number Generators*

Single-Photon Counting for Scientific Applications

- *Biosciences, Chemistry, Astrophysics, etc.*

Papers are invited for these and other topics, beginning May 6, 2013, and will be accepted until ~~August 9~~, **August 23**, 2013. More information is available at the conference website: <http://www.ornl.gov/sci/qis/spw2013.shtml>.