

# SCIENCE ENABLED BY PHOTON SOURCES: LOCAL RESEARCH INTERESTS IN VIRGINIA

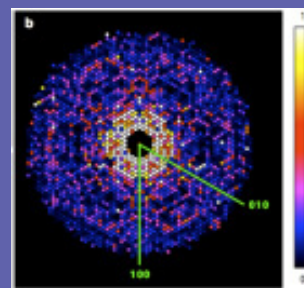
A compelling need is emerging in solid state physics, materials science, chemistry, biology, and geology to investigate ultrafast (femto second frame rates) events, electronic and phonon excitations, relaxation phenomena, and out of equilibrium dynamics in complex and strongly correlated systems. Join James Madison University for this one-day program to document the evidence of this need through research presentations from higher education institutions in Northwestern Virginia, and to justify the claim that a next generation photon source should be placed in the Commonwealth.

*Save  
the  
Date!*

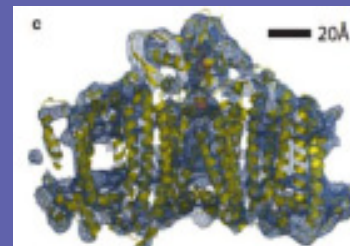
**MAY 16, 2012**  
**JAMES MADISON UNIVERSITY**  
**HARRISONBURG, VA**



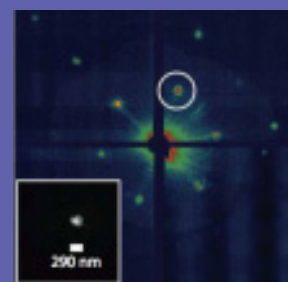
FOR MORE INFORMATION, PLEASE CONTACT:  
DR. GIOVANNA SCAREL AT [SCARELGX@JMU.EDU](mailto:SCARELGX@JMU.EDU)



Combined 3-D diffraction pattern



Reconstructed 3-D structure



Single shot diffraction pattern