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Applied Electromagnetics

The Office of Naval Research (ONR) Applied Electromagnetics (AppEI) program performs fundamental research on topics that promise to lead to significant improvement and valuable new concepts in future systems based on electromagnetic phenomena in the spectral range from microwaves to visible light. A well-integrated program is underway involving theoretical analysis, computational analysis and experimentation utilizing a multidisciplinary team involving scientists and engineers from academia, national laboratories. The research aims at pushing forward the frontiers of knowledge in a wide swath of advanced research areas including nonlinear dynamics and chaos, directed energy, femtosecond high intensity laser pulses, nanophotonics, high brightness free-electron lasers, terahertz gyrotrons, terahertz components, nanostructured materials, nanoplasmonics, high-performance materials, power beaming and advanced techniques for unmanned aerial vehicles.

Program Contact Information

Name: Sarwat Chappell

Title: Research Program Officer

Department: Code 35

Division: Air Warfare and Naval Weapons Applications

Phone: 703-696-4224

Email: sarwat.chappell@navy.mil

Address

Office of Naval Research
875 N. Randolph Street, Rm. 1133
Arlington, Va. 22203

Program Funding

Fiscal Year 2012 Funding Opportunity Announcement (FOA) for Navy and Marine Corps Science, Technology, Engineering and Mathematics (STEM) Programs 12-002

[FOA12-002](#) (PDF - 134.24 KB)

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Long-Range Broad Agency Announcement for Navy and Marine Corps Science and Technology 12-001

[12-001](#) (PDF - 209.78 KB)

[Amendment 0001](#) (PDF - 249.24 KB)

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Office of Naval Research
One Liberty Center
875 N. Randolph Street, Suite 1425
Arlington, VA 22203-1995

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