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1. AF11-BT01: Electro-optic Material Development

Release Date: 07-28-2011Open Date: 08-29-2011Due Date: 09-28-2011Close Date: 09-28-2011

TECHNOLOGY AREAS: Materials/Processes OBJECTIVE: Develop techniques and processes for scale up and production of high performance electro-optic (EO) organic material systems with sufficiently large Electro-optical Coefficient (r33>150pm/V). DESCRIPTION: Recent interest in the development of high performance electro-optic devices that enable critical military systems has led to a ...

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2. AF11-BT02: Electrically-Small Superconducting Wide-Bandwidth Receiver

Release Date: 07-28-2011Open Date: 08-29-2011Due Date: 09-28-2011Close Date: 09-28-2011

TECHNOLOGY AREAS: Electronics OBJECTIVE: Develop a wide-bandwidth (DC to 2 GHz) receiver utilizing two-dimensional arrays of high-transition-temperature (HTS) superconducting quantum interference devices (SQUIDs) DESCRIPTION: Large bandwidth communication systems are needed for the handling of high data throughput, while at the same time they should be capable of reducing size, wei ...

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3. AF11-BT03: Cognitive Radio Spectrum Management and Waveform

Adaptation for Advanced Wideband Space Communication Systems

Release Date: 07-28-2011Open Date: 08-29-2011Due Date: 09-28-2011Close Date: 09-28-2011

TECHNOLOGY AREAS: Space Platforms OBJECTIVE: Advanced game-theoretical frameworks and hybrid approaches for spectrum sensing and management in wideband space communication systems and hybrid space-terrestrial systems as well as countermeasures for adaptive RF interference & adversarial jamming. DESCRIPTION: Space vehicles and air-/space-borne sensors are essential components fo ...

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4. AF11-BT04: 3-D nondestructive imaging techniques for mesoscale damage analysis of composite materials

Release Date: 07-28-2011Open Date: 08-29-2011Due Date: 09-28-2011Close Date: 09-28-2011

TECHNOLOGY AREAS: Materials/Processes, Weapons OBJECTIVE: Develop techniques for detecting and modeling the evolution of damage in composite materials such as plastic bonded explosives or concretes using nondestructive means. DESCRIPTION: In hard target penetration, the onboard energetic material may be subjected to severe environments of both pressure and shear loading. Dama ...

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5. AF11-BT05: Printable Integrated Photonic Devices

Release Date: 07-28-2011Open Date: 08-29-2011Due Date: 09-28-2011Close Date: 09-28-2011

TECHNOLOGY AREAS: Sensors OBJECTIVE: Develop proof-of-concept printing technology for the design, modeling and manufacture of integrated photonic devices at low dimensions. DESCRIPTION: Printable electronics and photonics are emerging technologies that have attracted a lot of attention over the last decade. Traditionally, CMOS processes have been used to fabricate electronic and ph ...

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6. AF11-BT06: Sensitivity Analysis Methods for Complex, Multidisciplinary Systems

Release Date: 07-28-2011Open Date: 08-29-2011Due Date: 09-28-2011Close Date: 09-28-2011

TECHNOLOGY AREAS: Air Platform, Information Systems OBJECTIVE: Develop computational tools to compute response sensitivities of parametric multidisciplinary systems that exhibit nonlinear, dynamic behavior for use in gradient-based optimization, smart sampling, uncertainty quantification, and risk analysis. DESCRIPTION: Much progress has been made in the development of algorithms f ...

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7. AF11-BT07: High efficiency materials & processes for the reduction of CO2 to syngas

Release Date: 07-28-2011Open Date: 08-29-2011Due Date: 09-28-2011Close Date: 09-28-2011

TECHNOLOGY AREAS: Air Platform, Materials/Processes OBJECTIVE: Develop high efficiency (>70%) electrodes for electrochemical conversion of CO2 and water to syngas for JP-8 production. DESCRIPTION: The efficient conversion of CO2 into storable liquid fuels would help create a secure and sustainable source of carbon-neutral transportation fuels. Two approaches to this are to ...

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8. AF11-BT08: Plasma Simulation Code Encompassing Single-Fluid through Two-Fluid Models

Release Date: 07-28-2011Open Date: 08-29-2011Due Date: 09-28-2011Close Date: 09-28-2011

TECHNOLOGY AREAS: Information Systems, Space Platforms, Weapons OBJECTIVE: This topic seeks to develop robust unified plasma simulation software that encompasses single-fluid through two-fluid models and that is widely applicable to the large parameter space of Air Force needs in a single software package. DESCRIPTION: This topic seeks to develop robust unified plasma simulation so ...

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9. AF11-BT09: Intracellular Detection of Small Molecules in Live Cells

Release Date: 07-28-2011Open Date: 08-29-2011Due Date: 09-28-2011Close Date: 09-28-2011

TECHNOLOGY AREAS: Chemical/Bio Defense, Biomedical, Sensors OBJECTIVE: For the defense of toxic chemical and biological agents, the objective is to develop a broad-based biosensor, with “off” to “on” functionality that will allow for sensing of potential hazards. DESCRIPTION: Many sensors exist for detecting chemical and biological agents in non-biological e ...

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10. AF11-BT10: Innovative Electric Propulsion Technology for Responsive Space

Release Date: 07-28-2011Open Date: 08-29-2011Due Date: 09-28-2011Close Date: 09-28-2011

TECHNOLOGY AREAS: Space Platforms OBJECTIVE: Develop new electric propulsion concepts with highly flexible operating envelope of thrust and specific impulse for both rapid maneuvering of large space assets and highly efficient orbit and station-keeping. DESCRIPTION: The ability to rapidly perform space maneuvers, between various orbital inclinations, or between geostationary and lo ...

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