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≫ **Technical Seminar Series 2017–2018**

➤ Technical Seminars Available to University Groups

Members of the technical staff at MIT Lincoln Laboratory are pleased to present these technical seminars to interested college and university groups. Costs related to the staff members' visit for these seminars will be assumed by Lincoln Laboratory.

AIR TRAFFIC CONTROL
- Human-Systems Integration in Complex Support Systems
- Integrating Unmanned Aircraft Systems Safely into the National Airspace System
- Machine Learning Applications in Aviation Weather and Traffic Management
- Radar Detection of Aviation Weather Hazards
- System Design in an Uncertain World: Decision Support for Mitigating Thunderstorm Impacts on Air Traffic

COMMUNICATION SYSTEMS
- Balloon Communications Relay Systems and Technology
- Diversity in Air-to-Ground Lasercom: The Focal Demonstration
- Dynamic Link Adaptation for Satellite Communications
- High-Rate Laser Communications to the Moon and Back
- Machine Learning for Radio-Frequency Signal Classification and Blind Demodulation
- National Aeronautics and Space Administration Lunar Laser Communication Demonstration
- Practical Capacity Benchmarking for Wireless Networks
- Providing Information Security with Quantum Physics—A Practical Engineering Perspective
- Research Challenges in Airborne Networks and Communications
- Undersea Laser Communication—The Next Frontier
- Waveform Design for Airborne Networks

CYBER SECURITY AND INFORMATION SCIENCES
- Addressing the Challenges of Big Data Through Innovative Technologies
- Artificial Intelligence for Cyber Security
- Cryptographically Secure Computation
- Cyber Security Metrics
- Developing and Evaluating Link-Prediction Algorithms for Speaker Content Graphs
- Efficient, Privacy-Preserving Data Sharing
- Evaluating Cyber Moving Target Techniques
- Experiences in Cyber Security Education: The MIT Lincoln Laboratory Capture-the-Flag Exercise
- Modeling to Improve the Science of Insider Threat Detection
- Multicore Programming in pMatlab® Using Distributed Arrays
- Secure and Resilient Cloud Computing for the Department of Defense

ENGINEERING, OTHER
- Advanced Structures and Materials Using Additive Manufacturing
- Improved Resilience for the Electric Grid
- Optomechanical Systems Engineering for Space Payloads
- Self-Driving Vehicles Using Localizing Ground-Penetrating Radar
- Three-Dimensional Integrated Technology for Advanced Focal Planes and Integrated Circuits

HOMELAND PROTECTION
- Disease Modeling to Assess Outbreak Detection and Response

HUMAN LANGUAGE TECHNOLOGY
- New Approaches to Automatic Speaker Recognition and Forensic Considerations
- Signal Processing for the Measurement of Characteristic Voice Quality

RADAR AND SIGNAL PROCESSING
- Adaptive Array Estimation
- Advanced Embedded Computing
- A Wideband 6 GHz to 12 GHz Power Amplifier with Enhanced Efficiency
- Bioinspired Resource Management for Multiple-Sensor Target Tracking Systems
- Multilithic Phased Array Architectures for Next-Generation Radar
- Parameter Bounds Under Misspecified Models
- Polynomial Rooting Techniques for Adaptive Array Direction Finding
- Radar Signal Distortion and Compensation with Transionospheric Propagation Paths
- Synthetic Aperture Radar

SOLID-STATE DEVICES, MATERIALS, AND PROCESSES
- Advanced Materials at MIT Lincoln Laboratory
- Electromagnetic Vector Antenna and Constrained Maximum-Likelihood Imaging for Radio Astronomy
- Geiger-Mode Avalanche Photodiode Arrays for Imaging and Sensing
- High-Power Laser Technology at MIT Lincoln Laboratory
- Integrated Photonics for Sensing, Communications, and Signal Processing
- Microfluidics at MIT Lincoln Laboratory
- New Fabrication Platforms and Processes
- Quantum Information Science with Superconducting Artificial Atoms
- Slab-Coupled Optical Waveguide Devices and Their Applications
- Toward Large-Scale Trapped-Ion Quantum Processing
- Ultrasensitive Mass Spectrometry Development at MIT Lincoln Laboratory

SPACE CONTROL TECHNOLOGY
- Haystack Ultrawideband Satellite Imaging Radar Antenna
- Miniature Ultrawideband Antennas for Low-SWaP Platforms
- New Techniques for High-Resolution Atmospheric Sounding
- Synoptic Astronomy with the Space Surveillance Telescope

SYSTEMS AND ARCHITECTURES
- Choices, Choices, Choices (Decisions, Decisions, Decisions)
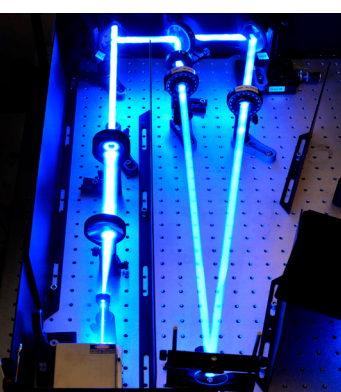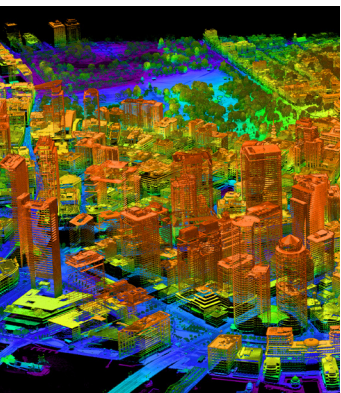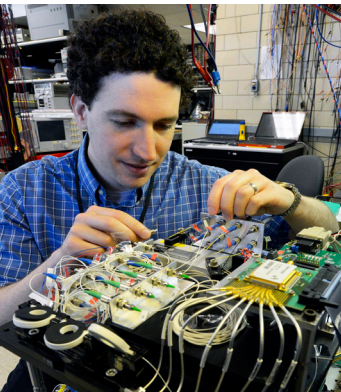
Seminar abstracts and instructions for arranging a seminar can be found online at **www.ll.mit.edu**