

ATTENDEE PACKET



Contents

General Information

Agenda

Contact Information





QTS FLYER

Shape a space-based quantum network satellite pathfinder program to address national security challenges with a community of US Government stakeholders

28 March

MIT Lincoln Laboratory
Conference Room C-302
244 Wood Street
Lexington, MA 02420

Workshop Office:

Dr. Barry Geldzahler (NASA)

Prof. Paul Kwiat (UIUC)

Dr. Scott Hamilton (MIT LL)

Contact:

Ms. Terri Welch

781-981-7670

terri.welch@II.mit.edu

https://conferences.ll.mit.edu/qts/

Dear Colleague,

We are pleased to invite you to NASA's Quantum Teleportation from **the** Space **Station** (QTS) Workshop which will be held on 28 March 2018 at MIT Lincoln Laboratory in Lexington, Massachusetts.

The major objective of this symposium is to reach out to US Government stakeholders to stimulate interaction and scope system applications and performance objectives for NASA's upcoming satellite-based quantum communication network demonstration.

The workshop will review a recent NASA architecture study that identifies a path to develop a multi-node space and ground system that achieves high rate quantum communication, entanglement distribution, and teleportation for applications including:

- Secure communications
- · Precision measurements and sensing
- Distributed computing

Government stakeholders will also be invited to present related work and a round table discussion will be supported up to SCI classification levels.

We hope you can join us and very much look forward to your participation.









GENERAL INFORMATION

Welcome to MIT Lincoln Laboratory

If this is your first visit, the MIT LL Conference Room C-302 map enclosed will help familiarize you with the location of amenities and workshop events.

Security

Visitor badges are required in order to attend the workshop. Badges may be picked up at the registration desk.

No cameras, audio recording, or video recording are permitted at Lincoln Laboratory. You may bring wireless devices such as cell phones, laptops, and personal electronic devices (PEDs) into public areas of the Laboratory, but not inside the Auditorium. Please leave any devices with Bluetooth capabilities such as Apple watches, Fitbit trackers, and headsets in your car or hotel room.

Meals

A complimentary continental breakfast and lunch will be provided. Additional meal and snack options are available for purchase in the cafeteria.

Smoking

Lincoln Laboratory is a smoke-free facility. See workshop staff for the location of outdoor smoking areas.





AGENDA

Start	Stop		Торіс	Speaker	Organization
8:00 AM	8:05 AM	5	MIT LL Host Comments	S. Hamilton	MIT LL
8:05 AM	9:00 AM	55	Welcome / Goals / Origins of Flight	B. Geldzahler	NASA SCaN
9:00 AM	10:00 AM	60	SDT Technology Development	P. Kwiat	UIUC
10:00 AM	10:15 AM	15	BREAK		
10:15 AM	10:45 AM	30	Entanglement Source Technology	W. Grice	ORNL
10:45 AM	11:15 AM	30	SNSPD- Array Development	Matt Shaw (given by Matt Grein)	JPL
11:15 AM	12:00 PM	45	NASA Quantum Computing Efforts	E. Rieffel	NASA ARC
12:00 PM	12:45 PM	45	WORKING LUNCH: MIT LL Quantum Network Study	S. Hamilton	MIT LL
12:45 PM	2:15 PM	90	Quantum Network Pathfinder Impact	P. B. Dixon	MIT LL
2:15PM	2:30 PM	15	BREAK		
2:30 PM	3:00 PM	30	High-Availability Q Ground Terminals	M. Gruneisen	AFRL RD
3:00PM	4:00 PM	60	DISCUSSION	All	
4:00			ADJOURN		





CONTACT INFORMATION

Dr. Barry Geldzahler
Chief Scientist and Chief Technologist,
Space Communications and Navigation
NASA HQ Human Exploration and
Operations Mission Directorate
Ph: 202-358-0512
bgeldzah@hq.nasa.gov

Professor Paul G. Kwiat Department of Physics University of Illinois at Urbana–Champaign Ph: 217-333-9116

kwiat@illinois.edu

Dr. Scott A. Hamilton Group 67 Leader Optical Communications Technology Group MIT Lincoln Laboratory Ph: 781-981-7670 shamilton@ll.mit.edu

Terri Welch Group Administrative Assistant Optical Communications Technology Group MIT Lincoln Laboratory Ph: 781-981-7670 terri.welch@ll.mit.edu

VISIT REQUESTS AND SENDING CLEARANCES

Sending Collateral Clearances:

To send collateral SECRET or TOP SECRET clearances to MIT Lincoln Laboratory, a Government or contractor security office may either:

- (Preferred) Enter JPAS visit requests (Lincoln's SMO code is 3G0506), or
- 2. Fax clearance certifications to 781-981-5588
- * Note that the JPAS SMO code for passing collateral clearances is our CAGE CODE (3G050) plus the digit "6" at the end.

To verify that clearances have been received, call 781-981-7118.

Sending SCI Accesses:

To send certification of SCI accesses to MIT Lincoln Laboratory, a Government or Contractor Special Security Office may either:

- (Preferred) Enter JPAS visit requests (Lincoln's SMO code is 3G0502), or
- 2. Fax accesses to 781-981-4441 (unclassified fax), or
- 3. Fax accesses to 781-981-4262 (STU III fax), or
- 4. Send accesses via SSO channels with the following PLA:

SSO ESC/INS (Pass to CSSO.MIT/LINCOLNLABS)

Points of Contact

The points of contact in security for SCI visitor(s) are:

- Peter Dickhaut Security Coordinator Ph: 781-981-5102 dickhaut@ll.mit.edu
- Chad Jusseaume Security Coordinator Ph: 781-981-7196 jusseaume@ll.mit.edu

To verify that accesses have been received, call781-981-512 or 781-981-7196.





HOTELS, LOCAL RESTAURANTS & CAR SERVICE

Hotels

This list of hotels is for informational purposes only and includes a range of hotels, i.e., full service, mid-range, budget. The publishing of this hotel information does not constitute an endorsement or recommendation by Lincoln Laboratory.

Note: The hotels are ordered according to proximity to the Laboratory; the numbers do not imply any ranking of the hotels' quality, services, or amenities.

Hanscom Inn

 1427 Kirtland Street
 (Bldg. #1425)
 Bedford, MA 01731
 781-225-4444

2. Element 727 Marrett Road-B Lexington, MA 02421 781-761-1750

3. Aloft 727 Marrett Road–A Lexington, MA 02421 781-761-1700

4. Hilton Garden Inn 5 Wheeler Road Burlington, MA 01803 781-272-8800 781-221-4605 (fax) 800-445-8667 (toll free)

5. Sonesta 11 Old Concord Road Burlington, MA 01803 781-221-2233

Hyatt Summerfield Suites
 Van De Graaff Drive
 Burlington, MA 01803
 781-270-0800

7. Boston Marriott
Routes 95/128 & 3A
1 Burlington Mall Road
Burlington, MA 01803
781-229-6565
800-228-9290 (toll free)

8. Homestead Studio Suites 40 South Avenue Burlington, MA 01803 781-359-9099 800-804-3724 (toll free)

9. Candlewood Suites 130 Middlesex Turnpike Burlington, MA 01803 781-229-4300

Local Restaurants

1. Waxy O'Connor's
Irish Pub
94 Hartwell Ave.
Lexington, MA 02421

(781) 861-9299 http://www.waxys.com/locations/ lexington/

2. Margaritas Mexican Restaurant

Mexican 438 Bedford St. Lexington, MA 02420 (339) 970-2250 https://www.margs.com/food-drink/ lexington/

3. Bertucci's
Italian Fare & Pizzas
1777 Massachusetts Ave.
Lexington, MA 02420
(781) 860-9000
http://www.bertuccis.com/locations/lexington

4. Yangtze River Restaurant
Chinese
Giroux Building, 25 Depot Sq.
Lexington, MA 02420
(781) 861-6030
http://www.yangtzeriverlexington

5. Red Heat Tavern
Bistro Pub
152 Great Rd.
Bedford, MA 01730
(781) 538-4330
http://www.redheattavern.com

Del Frisco's Grille
 Steak & Seafood
 92 Middlesex Turnpike
 Burlington, MA 01803
 (781) 365-2005
 http://www.delfriscosgrille.com

7. The Cheesecake Factory
American Chain
Burlington Mall, 75 Middlesex Tpk.
Burlington, MA 01803

(781) 273-0060 http://www.thecheesecakefactory.com

8. Tavern in the Square Restaurant American Pub 1 District Ave. Burlington, MA 01803 (781) 272-9000 http://www.taverninthesquare.com

9. Tony C's
Sports Bar & Grill
17 3rd Ave.
Burlington, MA 01803
(781) 238-8282
http://www.tonycssportsbar.com

10. D'Angelo Grilled Sandwiches Deli Sandwich's 363 Great Rd. Bedford, MA 01730

Bedford, MA 01730 (781) 275-1333 http://www.dangelos.com

11. Panera Bread
Bakery/Cafe & Sandwich's
1684 Massachusetts Ave.
Lexington, MA 02420
(781) 372-3246
http://www.panerabread.com

12. Dunkin' Donuts
Coffee
286 Lincoln St.
Lexington, MA 02421
(781) 862-1553
https://www.dunkindonuts.com

13. Starbucks
Coffee
60 Bedford St.
Lexington, MA 01803
(781) 863-1189
https://www.starbucks.com

Car Service

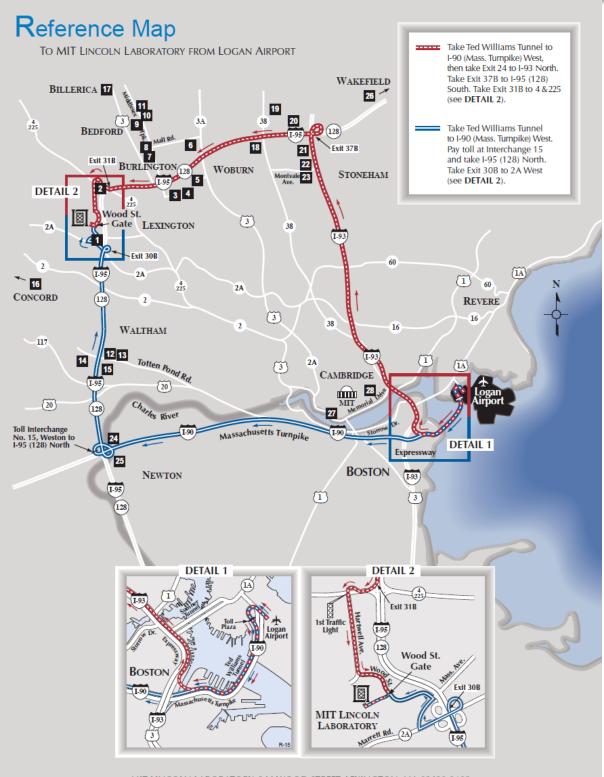
 Corporate Coach & Limosine (877) 714-7433 info@corporatecoachlimosine.com 2. Bedford Cab & Coach 227 Great Rd. Bedford, MA 01730

781-275-5000





DIRECTIONS FROM LOGAN AIRPORT







VISITOR AND RESERVED PARKING

