



# **QCPM Workshop 2000**

## **Announcement**

*Meeting Location:*

**Sea Crest  
Conference Center**

**Old Silver Beach on Cape Cod  
350 Quaker Road, North Falmouth, MA 02556**

**18-19 October 2000**

The Air Force Office of Scientific Research is sponsoring a new research theme called “Quantum Computing for Physical Modeling,” which is a direct outgrowth of the quantum computing research presently underway at the Air Force Research Laboratory (AFRL/VSBL, Hanscom AFB), task No. 2304TD01.

To kick-off a new program including extramural research activities planned for FY2001, we are holding a workshop on this topic (18-19 October 2000 at the Sea Crest Hotel, North Falmouth, Massachusetts) for the purpose of organizing and establishing new university collaborations towards the development of a type-II quantum computer (<http://xyz.plh.af.mil/Papers/pdf/qctypes99.pdf>).

This workshop offers a unique opportunity to assemble many experts in the field (both experimentalists and theorists) to focus efforts in a timely fashion given the rapid pace of discovery and proof-of-concept experimental demonstrations now occurring in this field. Our goal for this workshop forum is to publicize and establish a set of achievable milestones (within a 5 year timeframe) and a workable timetable for constructing a prototype TYPE-II quantum computer array suited to DoD modeling needs.



# QCPM Workshop 2000

## Workshop Information



Air Force Research Laboratory is pleased to host the “Quantum Computation for Physical Modeling Workshop 2000” to be held on 18-19 October 2000. The conference is sponsored by the Air Force Office of Scientific Research. The workshop is locally organized by

- Jeffrey Yepez of AFRL  
email: Jeffrey.Yepez@hanscom.af.mil, telephone: 781-377-5857
- David Cory of MIT Nuclear Engineering  
email: dcory@mit.edu, telephone: 617-253-3806
- Bruce Boghosian of Tufts Mathematics  
email: Bruce.Boghosian@tufts.edu, telephone: 617-627-3054

The workshop secretary is Elaine Murphy (email: Elaine.Murphy@hanscom.af.mil, telephone: 781-377-5887, FAX 781-377-3661).

**LOCATION:** Conference sessions will be held at the Sea Crest in the Nauset Conference Center (<http://www.seacrest-resort.com/conf-nauset.htm>) in the N. Falmouth, Massachusetts, USA. (N. Falmouth is on the southwestern corner of Cape Cod.)

**RECEPTIONS:** The meeting will begin with a reception on Tuesday evening (5-7pm) at the Sea Crest lounge, an occasion for early check-in, and informal discussions over a glass of wine.

**MEALS:** Breakfast and lunch will be catered in Sea Crest Dining Room on the first day of the workshop. Only breakfast will be catered on the second day of the workshop. A workshop banquet has also been scheduled.

**BANQUET DINNER:** A workshop banquet has been scheduled at the Sea Crest Oceanfront Dining Room, at 5:30pm on Wednesday, October 18th. A choice of Surf and Turf (filet mignon and baked stuffed shrimp) or North Atlantic Swordfish.



## QCPM Workshop 2000



### Workshop Information Continued

**AGENDA:** A preliminary agenda for the workshop is posted on the website (see [http://xyz.plh.af.mil/QCPM2000/QCPM2000\\_abstracts.pdf](http://xyz.plh.af.mil/QCPM2000/QCPM2000_abstracts.pdf)).

**ABSTRACTS:** Deadline for submitting titles and abstracts for contributed talks and posters is **September 29, 2000**.

**ATTENDANCE:** This meeting is open to the public, though all visitor registration applications are subject to approval by the Air Force Research Laboratory.

**PROCEEDINGS:** Proceedings for this meeting will be published. Submission information will be provided when publishing details have been finalized.

**REGISTRATION:** Registration can be completed by filling in the registration form on the last page of this document. Please register early as seating is limited and visitor approval may be required. The deadline is October 6, 2000. The registration fee of \$125.00 covers the cost of refreshment breaks and the workshop reception. It may be paid in cash or by check payable to: *QCPM Workshop 2000* in U.S. dollars and drawn on a U.S. bank.

There is no mechanism at the Laboratory for payment by credit card or purchase order.

**TRANSPORTATION:** The Air Force Research Laboratory has arranged to provide rental cars for visitors issued government invitational orders at a reduced government rate including drivers insurance. The Travel Company can assist you with these arrangements (<http://www.thetravelcoinc.com/>). You will need to provide your expected pick-up and drop-off dates and hours.



## QCPM Workshop 2000



### Workshop Information Continued

**LODGING** We have reserved a block of rooms at the Sea Cres (<http://www.seacrest-resort.com/>) t, 350 Quaker Road, North Falmouth, MA 02556. Telephone 1-800-225-3110. The government rate, which applies to all visitors issued government invitational orders, is \$70.00 + tax.



For assistance in finding alternate accommodations visit the Town of Falmouth web site (<http://www.falmouth-capecod.com/>). These people will be able to assist you in finding suitable accommodations near the meeting site.



# QCPM Workshop 2000



## Registration Form

All fields highlighted in magenta are required to process government invitational orders

### PERSONAL INFORMATION

**Full Name** (Last, First, MI) \_\_\_\_\_

**SSN** \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_

**Affiliation** \_\_\_\_\_

**Status** \_\_\_ Faculty/Staff \_\_\_ Student \_\_\_ Postdoc \_\_\_ Gov't \_\_\_ DoD Contr.

**Title** \_\_\_\_\_

**E-Mail** \_\_\_\_\_ @ \_\_\_\_\_

### Mailing Address

Street Address \_\_\_\_\_ City \_\_\_\_\_

State/Province \_\_\_\_\_ Country \_\_\_\_\_ Postal Code \_\_\_\_\_

### Phone Numbers

Home \_\_\_\_\_ Work \_\_\_\_\_ FAX \_\_\_\_\_

### Citizenship

Are you a US citizen? Yes/No

Do you have dual citizenship? Yes/No If so, please list countries \_\_\_\_\_

If Naturalized: Date \_\_\_\_\_ Naturalization Number \_\_\_\_\_

**Banquet Selection** Please circle one of these: Surf and Turf or North Atlantic Swordfish

### PAYMENT

Payment must be made by October 6, 2000 to be able to attend the workshop. Credit cards cannot be accepted. Make checks payable to:

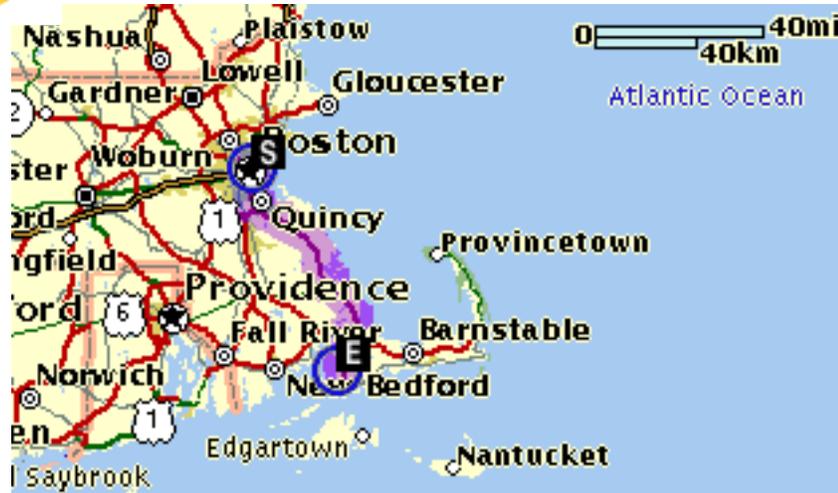
**QCPM Workshop 2000  
AFRL/VSBL  
29 Randolph Road, Hanscom AFB, MA 01731  
Attention: Ms E. Murphy**



# QCPM Workshop 2000



## Directions from Logan Airport



Directions	Distance
1: LOGAN INT'L AIRPORT ACC towards HARBORSIDE DR.	0.2 miles
2: Turn SLIGHT RIGHT onto HARBORSIDE DR.	0.1 miles
3: Stay straight to go onto HARBORSIDE DR.	0.2 miles
4: Turn RIGHT onto JEFFRIES ST.	0.1 miles
5: Turn LEFT onto SERVICE RD.	0.1 miles
6: Turn SLIGHT RIGHT.	0.0 miles
7: Stay straight to go onto MAVERICK ST.	0.6 miles
8: Turn RIGHT onto CHELSEA ST.	0.3 miles
9: Turn LEFT onto GEORGE R VISCONTI RD.	0.1 miles
10: Turn SLIGHT RIGHT onto MA-1A S.	1.2 miles
11: Turn RIGHT onto CROSS ST.	0.1 miles
12: Turn SLIGHT LEFT to take the I-93 SOUTH ramp towards MASS. PIKE/QUINCY.	0.2 miles
13: Merge onto US-1 S.	10.3 miles
14: Take the RT-3 SOUTH exit, exit number 7, on the left towards BRAINTREE/CAPE COD.	0.1 miles
15: Merge onto MA-3 S.	42.8 miles
16: Enter next roundabout and take 1st exit onto US-6 W.	3.6 miles
17: Take the RT-25/RT-28 SOUTH ramp towards PROVIDENCE/BOSTON/FALMOUTH.	0.4 miles
18: Merge onto US-6 E.	0.8 miles
19: Enter next roundabout and take 2nd exit onto MA-28 S. Pass through 1 roundabout.	7.1 miles
20: Take the RT-151 exit towards NO. FALMOUTH/MASHPEE/OLD SILVER BEACH.	0.2 miles
21: Turn LEFT onto MA-151.	0.3 miles
22: Turn LEFT onto MA-28A.	1.0 miles
23: Turn RIGHT onto CURLEY BLVD.	0.7 miles
24: CURLEY BLVD becomes QUAKER RD.	0.7 miles

**Total Distance: 71.2 miles**

**Total Estimated Time: 1 hour, 38 minutes**



# QCPM Workshop 2000

## Direction from TF Green Airport



Directions	Distance
1: Start out going West on AIRPORT CONNECTOR RD.	1.1 miles
2: Take the I-95 NORTH ramp towards PROVIDENCE.	0.3 miles
3: Merge onto I-95 N.	6.9 miles
4: Take the I-195 EAST/US-6 EAST exit, exit 20, towards EAST PROVIDENCE/CAPE COD.	0.3 miles
5: Merge onto I-195 E.	43.7 miles
6: Take the RT-25 EAST exit, exit number 22A, towards CAPE COD/THE ISLANDS.	0.3 miles
7: Merge onto MA-25 E.	9.7 miles
8: MA-25 E becomes US-6.	0.6 miles
9: Enter next roundabout and take 2nd exit onto MA-28 S. Pass through 1 roundabout.	7.1 miles
10: Take the RT-151 exit towards NO. FALMOUTH/MASHPEE/OLD SILVER BEACH.	0.2 miles
11: Turn LEFT onto MA-151.	0.3 miles
12: Turn LEFT onto MA-28A.	1.0 miles
13: Turn RIGHT onto CURLEY BLVD.	0.7 miles
14: CURLEY BLVD becomes QUAKER RD.	0.7 miles

**Total Distance: 73.0 miles**

**Total Estimated Time: 1 hour, 33 minutes**