

# REPORT DOCUMENTATION PAGE

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6. AUTHOR(S)

Moshe Shapiro

7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)

GORDON RESEARCH CONFERENCES  
PO BOX 984  
WEST KINGSTON, RI 02892-0984

8. PERFORMING ORGANIZATION  
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1

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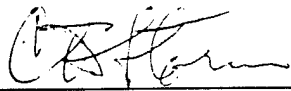
Carlyle B. Storm, Director

19b. TELEPHONE NUMBER (Include area code)

401-783-4011

# FINANCIAL STATUS REPORT

(Follow instructions on the back.)

1. FEDERAL AGENCY AND ORGANIZATIONAL ELEMENT TO WHICH REPORT IS SUBMITTED Office of Naval Research		2. FEDERAL GRANT OR OTHER IDENTIFYING NUMBER N00014-01-1-0102		OMB Approved No. 80-R0180	
3. RECIPIENT ORGANIZATION (Name and complete address, including ZIP code)  Gordon Research Conferences PO Box 984 West Kingston, RI 02892-0984		4. EMPLOYER IDENTIFICATION NUMBER 050300482			
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FROM (Month, day, year) 10/15/00		TO (Month, day, year) 10/14/01		FROM (Month, day, year) 10/15/00	
				TO (Month, day, year) 10/14/01	
10. STATUS OF FUNDS					
a. Net outlays previously reported				\$ 0.00	
b. Total outlays this report period				31,502	
c. Less: Program income credits				0.00	
d. Net outlays this report period (Line a minus line c)				31,502	
e. Net outlays to date (Line a plus line d)				31,502	
f. Less: Non-Federal share of outlays				26,502	
g. Total Federal share of outlays (Line e minus line f)				5,000	
h. Total unliquidated obligations				0.00	
i. Less: Non-Federal share of unliquidated obligations shown on line h				0.00	
j. Federal share of unliquidated obligations (Line h minus line i)				0.00	
k. Total Federal share of outlays and unliquidated obligations (Line g plus j)				5,000	
l. Total cumulative amount of Federal funds authorized				5,000	
m. Unobligated balance of Federal funds (Line l minus line k)				0.00	
11. INDIRECT EXPENSE NONE		a TYPE OF RATE (Place "X" in appropriate box) <input type="checkbox"/> PROVISIONAL <input type="checkbox"/> PREDETERMINED <input type="checkbox"/> FINAL <input type="checkbox"/> FIXED			
		b. RATE		c. BASE	
		d. TOTAL AMOUNT		e. FEDERAL SHARE	
12. REMARKS (Attach any explanations deemed necessary or information required by Federal sponsoring agency in compliance with governing legislation.)  2001 Quantum Control of Atomic & Molecular Motion					
13. CERTIFICATION I certify to the best of my knowledge and belief that this report is correct and complete and that all outlays and unliquidated obligations are for the purposes set forth in the award documents		SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL 		DATE REPORT SUBMITTED November 9, 2001	
		TYPED OR PRINTED NAME AND TITLE Carlyle B. Storm, Director		TELEPHONE (Area code, number, and extension) 401-783-4011	
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## 2001 GORDON RESEARCH CONFERENCE

on Quantum Control of Atomic & Molecular Motion

### FINAL PROGRESS REPORT

ONR

N00014-01-1-0102

The Gordon Research Conference (GRC) on Quantum Control of Atomic & Molecular Motion was held at Mount Holyoke, South Hadley, MA, July 29-August 3, 2001. The conference was well attended with 119 participants (list enclosed). The attendees represented the spectrum of endeavor in this field coming from academia, industry, and government laboratories, both US and foreign scientists, senior researchers, young investigators, and students.

In designing the formal speakers program, emphasis was placed on current unpublished research and discussion of the future target areas in this field. There was a conscious effort to stimulate lively discussion about the key issues in the field today. Time for formal presentations was limited in the interest of group discussions. In order that more scientists could communicate their most recent results, poster presentation time was scheduled. In addition to these formal interactions, "free time" was scheduled to allow informal discussions. Such discussions are fostering new collaborations and joint efforts in the field (program enclosed).

I want to personally thank you for your support of this Conference. As you know, in the interest of promoting the presentation of unpublished and frontier-breaking research, Gordon Research Conferences does not permit publication of meeting proceedings. If you wish any further details, please feel free to contact me. Thank you.

Moshe Shapiro  
Conference Chair

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# ***Quantum Control Of Atomic & Molecular Motion***

July 29 - August 3, 2001  
Mount Holyoke College

Moshe Shapiro, Chair  
Klaas Bergmann, Vice-Chair

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## **Sunday**

### **19:30-19:45 General Perspectives**

**Peter Lambropoulos**, FORTH, Greece

19:45-20:35 **Stuart Rice**, U. of Chicago, USA  
"Optical Control of Molecular Dynamics: Problems and Prospects"

20:35-20:45 Discussion

20:45-21:35 **Anton Zeilinger**, U. of Vienna, Austria  
"Information and Quantum Mechanics"

21:35-21:45 Discussion

## **Monday**

8:40-8:55 Group photo

### **9:00-9:15 Phase Control**

**Karl Kompa**, MPI, Garching, Germany

9:15-9:55 **Paul Brumer**, U. of Toronto, Canada  
"Controlled Chiral Purification and Controlled Quantum Chaotic Diffusion"

9:55-10:05 Discussion

10:05-10:45 **Stephen Leone**, NIST and U. of Colorado, USA  
"Wave Packet Phase Control, Evolutionary Algorithms, and Quantum Information"

10:45-10:55 Discussion

10:55-11:15 Coffee break

11:15-11:55 **Robert Gordon**, U. of Illinois at Chicago, USA  
"Using Coherent Phase Control to Probe Structure in the Continuum"

11:55-12:05 Discussion

12:05-12:25 **Robert Levis**, Wayne State U., Detroit, USA  
Hot Topic I: "Strong Field Control of Chemical Dissociation and Rearrangement"

12:25-12:30 Discussion

16:30-18:00 *Poster session I*  
**Klaas Bergmann**, Kaiserslautern U., Germany

### **19:30-19:45 Optimal Control**

**Herschel Rabitz**, Princeton U., USA

19:45-20:25 **Yaron Silberberg**, Weizmann Inst., Israel  
"Femtosecond control of multiphoton transitions"

20:25-20:30 Discussion

20:30-21:10 **Tobias Brixner**, U. of Wuerzburg, Germany  
"Quantum control in the liquid phase by adaptive femtosecond. pulse shaping"

21:10-21:15 Discussion

21:15-21:55 **Yuichi Fujimura**, Tohoku U., Japan  
"Optimal control of selective preparation of enantiomers from their racemate"

21:55-22:00 Discussion

**Tuesday**

**9:00-9:15 Quantum Information**

**Carlos Stroud**, U. of Rochester, USA

9:15-9:55 **Gershon Kurizki**, Weizmann Inst., Israel  
"Decoherence and Entanglement: Control of intra- and inter- molecular processes"

9:55-10:05 Discussion

10:05-10:45 **Ian Walmsley**, U. of Rochester, USA  
"Decoherence and learning control for information processing in the quantum regime"

10:45-10:55 Discussion

10:55-11:15 Coffee break

11:15-11:55 **Eugene Polzik**, U. of Aarhus, Denmark  
"Entanglement and Quantum Communication with Spin Polarized Atomic Samples"

11:55-12:05 Discussion

12:05-12:25 **Daniel Lidar**, U. of Toronto, Canada  
Hot Topic II: "Decoherence-Free Quantum Computation"

12:25-12:30 Discussion

14:00-14:30 Meeting of the nomination committee

**19:30-19:45 Light Manipulation and Manipulation with Light**

**Bretislav Friedrich**, Harvard, USA

19:45-20:25 **Alexei Sokolov**, Stanford U., USA  
"Femtosecond Light Source for P hase- Controlled Multiphoton Ionization"

20:25-20:30 Discussion

20:30-21:10 **Michael Fleischhauer**, Kaiserslautern U., Germany  
"Coherent control of light pulses. Quantum memories for photons"

**Mikhail Lukin**, Harvard, USA  
"Coherent trapping of photon states in matter: experiments & applications for quantum processing"

21:10-21:15 Discussion

**Wednesday**

**9:00-9:15 Control in the condensed phase**

**Philip Bucksbaum**, U. of Michigan, Ann-Arbor, USA

9:15-9:55 **Ronnie Kosloff**, Hebrew U., Israel  
"Impulsive Control of Ground Surface Dynamics"

9:55-10:05 Discussion

10:05-10:45 **Robert Coalson**, U. of Pittsburgh, USA  
"Laser Control of Electron Transmission through Molecular Wires"

10:45-10:55 Discussion

10:55-11:15 Coffee break

11:15-11:55 **Milena Grifoni**, U. of Delft, The Netherlands  
"Control of tunneling in nonadiabatic quantum ratchets"

11:55-12:05 Discussion

12:05-12:25 **Jon Marangos**, Imperial College, UK  
Hot Topic III: "High Order Harmonic Generation in Aligned Molecules"

12:25-12:30 Discussion

16:30-18:00 *Poster session II*  
**Klaas Bergmann**, Kaiserslautern U., Germany

**19:30-19:45 Strong Field Control**

**Paul Corkum**, NRC, Ottawa, Canada

- 19:45-20:25 **Tamar Seideman**, NRC, Ottawa, Canada  
"Spatially controlled ro-translational wavepackets"
- 20:25-20:30 Discussion
- 20:30-21:10 **Henrik Stapelfeldt**, U. of Aarhus, Denmark  
"Control of chemical reactions by laser aligned molecules"
- 21:10-21:15 Discussion
- 21:15-21:55 **Andre Bandrauk**, U. de Sherbrooke, Canada  
"Controlling Electron- Nuclear Dynamics with Short Intense Laser Pulses: From Super-Computer Simulations to Applications"
- 21:55-22:00 Discussion

#### Thursday

- 9:00-9:15 **Laser Cooling and BEC Dynamics**  
**David Tannor**, Weizmann Inst., Israel
- 9:15-9:55 **Amichay Vardi**, ITAMP, Harvard, USA & **James Anglin**, MIT, USA  
"Quantum atom optics: Bose-Einstein condensates beyond Gross-Pitaevskii"
- 9:55-10:05 Discussion
- 10:05-10:45 **Pierre Pillet**, Lab. Aime Cotton, France  
"Control of a Pair of Colliding Atoms Through Photoassociation and Formation of Ultracold Molecules"
- 10:45-10:55 Discussion
- 10:55-11:15 Coffee break
- 11:15-11:55 **Gerard Meijer**, FOM, Nieuwegein, The Netherlands  
"Deceleration and trapping of neutral dipolar molecules"
- 11:55-12:05 Discussion
- 12:05-12:25 **Stefan Vajda**, Freie U. Berlin, Germany  
Hot Topic IV: "Fragmentation Control of Small Alkaline Clusters: What Can We Learn From the Optimized Pulse Shapes"
- 12:25-12:30 Discussion
- 14:00-14:30 Business Meeting
- 19:30-19:45 **Control in the Solid Phase**  
**Henry van-Driel**, U. of Toronto, Canada
- 19:45-20:25 **Walter Potz**, U. of Graz, Austria  
"Coherent Control Schemes in Semiconductor Nanostructures"
- 20:25-20:30 Discussion
- 20:30-21:10 **V. Ara Apkarian**, U.C. Irvine, USA  
"Preparation, manipulation, and interrogation of molecular coherences OR reset, process, and readout of quantum registers using four-wave mixing"
- 21:10-21:15 Discussion
- 21:15-21:55 **Keith Nelson**, MIT, USA  
"Polaritonics: Coherent control over collective modes that move at light-like speeds"
- 21:55-22:00 Discussion



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# QUANTUM CONTROL OF LIGHT AND MATTER

Mount Holyoke College, South Hadley, MA  
(29-Jul-01) - (03-Aug-01)

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**NOTE:** Receipt of Application does not guarantee acceptance to a Conference. Applications are reviewed by the Conference Chair. If the Chair approves your application, you become **Accepted**, and a registration packet will be mailed immediately. Please allow 3-5 days for your registration to reach you by mail once your name appears. When your registration packet has been received back in our office, you become **Registered**.

Only those who have been **Accepted** or **Registered** will have their names listed below. Names of people who have only applied and have yet to be accepted will NOT appear.

Name	Organization	Participation	Status
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<u>VARDI AMICHAY</u>	HARVARD UNIVERSITY	Speaker	Registered
<u>ZOHAR AMITAY</u>	JILA, UNIVERSITY OF COLORADO, NIST	Poster Presenter	Registered
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<u>ANDRE D BANDRAUK</u>	UNIVERSITE DE SHERBROOKE	Speaker	Registered
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<u>THOMAS C WEINACHT</u>	JILA	Poster Presenter	Registered
<u>ARLENE D WILSON-GORDON</u>	BAR-ILAN UNIVERSITY	Poster Presenter	Registered
<u>MATTHAIS WOLLENHAUPT</u>	UNIVERSITÄT GESAMTHOCHSCHULE KASSEL	Poster Presenter	Registered
<u>KOICHI YAMASHITA</u>	UNIVERSITY OF TOKYO	Poster Presenter	Registered
<u>ANTON ZEILINGER</u>	UNIVERSITÄT WIEN	Speaker	Registered
<u>QUN ZHANG</u>	WEIZMANN INSTITUTE OF SCIENCE	Attendee	Registered