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GORDON RESEARCH CONFERENCES *frontiers of science*

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Nancy Ryan Gray, Ph.D.

Director

Electrochemistry
Gordon Research Conference

FINAL PROGRESS REPORT

DOE
DE-FG02-06ER15774

The Gordon Research Conference (GRC) on Electrochemistry was held at Santa Ynez Valley Marriott, Buellton California from February 12-17, 2006. The Conference was well-attended with 113 participants (attendees list attached). The attendees represented the spectrum of endeavor in this field coming from academia, industry, and government laboratories, both U.S. 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In designing the formal speakers program, emphasis was placed on current unpublished research and discussion of the future target areas in this field.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. Attached is a copy of the formal schedule and speaker program and the poster program. 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.

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 As you know, in the interest of promoting the presentation of unpublished and frontier-breaking research, Gordon Research Conferences does not permit publication of meeting proceedings.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.

Dr. Hector D. Abruna
Conference Chair/Principal Investigator

Electrochemistry

Santa Ynez Valley Marriott
Feb 12-17, 2006

Name	Organization	Participation	Status
HECTOR ABRUNA	CORNELL UNIVERSITY	Chair	Registered
JULIO C ALVAREZ	VIRGINIA COMMONWEALTH UNIVERSITY	Poster Presenter	Registered
CHRISTIAN AMATORE	ECOLE NORMALE SUPERIEURE	Speaker	Registered
SHIGERU AMEMIYA	UNIVERSITY OF PITTSBURGH	Poster Presenter	Registered
KATHERINE E AYERS	ENERGIZER BATTERY COMPANY	Attendee	Registered
HELMUT BALTRUSCHAT	UNIVERSITY BONN	Speaker	Registered
ALLEN J BARD	UNIVERSITY OF TEXAS AT AUSTIN	Discussion Leader	Registered
RUKMA S.T. BASNAYAKE	TEXAS TECH UNIVERSITY	Poster Presenter	Registered
DANIEL BELANGER	UNIVERSITE DU QUEBEC A MONTREAL	Poster Presenter	Registered
STEFAN BERNHARD	PRINCETON UNIVERSITY	Speaker	Registered
PETER R BIRKIN	UNIVERSITY OF SOUTHAMPTON	Poster Presenter	Registered
VIOLA I BIRSS	UNIVERSITY OF CALGARY	Attendee	Registered
EMEK I BLAIR	UNIVERSITY OF CALIFORNIA, IRVINE	Poster Presenter	Registered
HENRY N BLOUNT	NATIONAL SCIENCE FOUNDATION	Attendee	Registered
MEGAN E BOURG	UNIVERSITY OF CALIFORNIA, IRVINE	Poster Presenter	Registered
DANIEL A BUTTRY	UNIVERSITY OF WYOMING	Attendee	Registered
ARNALDO CARRASQUILLO	UNIVERSITY OF PUERTO RICO	Poster Presenter	Registered
ELENA CASERO	UNIVERSIDAD AUTONOMA DE MADRID	Poster Presenter	Registered
SHAOWEI CHEN	UNIVERSITY OF CALIFORNIA, SANTA CRUZ	Discussion Leader	Registered
TA-YUNG CHEN	BROADLEY-JAMES CORP.	Attendee	Registered
CHRISTOPHER E CHIDSEY	STANFORD UNIVERSITY	Attendee	Registered
JOEL CHRISTIAN	OSRAM SYLVANIA	Attendee	Registered
MALGORZATA CISZKOWSKA	BROOKLYN COLLEGE, CUNY	Attendee	Registered
ANDREW CLELAND	UNIVERSITY OF CALIFORNIA, SANTA BARBARA	Attendee	Registered
JAMIE L COHEN	CORNELL UNIVERSITY	Poster Presenter	Registered
JAMES P COLLMAN	STANFORD UNIVERSITY	Attendee	Registered
STEPHEN E CREAGER	CLEMSON UNIVERSITY	Poster Presenter	Registered
ROBERT C DAVIS	BRIGHAM YOUNG UNIVERSITY	Poster Presenter	Registered
NEAL K DEVARAJ	STANFORD UNIVERSITY	Poster Presenter	Registered
BIN DU	PLUG POWER, INC.	Attendee	Registered
AUBREY L DYER	UNIVERSITY OF FLORIDA	Poster Presenter	Registered
LUIS ECHEGOYEN	CLEMSON UNIVERSITY	Speaker	Registered
SEAN J ELLIOTT	BOSTON UNIVERSITY	Poster Presenter	Registered
C. MICHAEL ELLIOTT	COLORADO STATE UNIVERSITY	Attendee	Registered
STEPHEN W FELDBERG	BROOKHAVEN NATIONAL LABORATORY	Attendee	Registered
JUAN MIGUEL FELIU	UNIVERSIDAD DE ALICANTE	Discussion Leader	Registered
HARRY O FINKLEA	WEST VIRGINIA UNIVERSITY	Poster Presenter	Registered
ANNE E FISCHER	NAVAL RESEARCH LABORATORY	Poster Presenter	Registered
MICHAEL S FREUND	UNIVERSITY OF MANITOBA	Attendee	Registered
NICOLAS GLANDUT	UNIVERSITY OF CALIFORNIA, BERKELEY	Attendee	Registered
HARRY B GRAY	CALIFORNIA INSTITUTE OF TECHNOLOGY	Speaker	Registered
JACOB E GROSE	CORNELL UNIVERSITY	Poster Presenter	Registered
NORMAN HACKERMAN	RICE UNIVERSITY	Discussion Leader	Registered
ENRIQUE HERRERO	UNIVERSIDAD DE ALICANTE	Speaker	Registered
GREG A HOPE	GRIFFITH UNIVERSITY	Attendee	Registered
BENJAMIN M HUTCHINS	PENN STATE UNIVERSITY	Poster Presenter	Registered
TAKASHI ITO	KANSAS STATE UNIVERSITY	Poster Presenter	Registered

JINHWAN KIM	SUNGKYUNKWAN UNIVERSITY	Attendee	Registered
CAROL KORZENIEWSKI	TEXAS TECH UNIVERSITY	Vice Chair	Registered
CARL A KOVAL	UNIVERSITY OF COLORADO AT BOULDER	Poster Presenter	Registered
KATRINA KRISCHER	TECHNICAL UNIVERSITY OF MUNICH	Speaker	Registered
WERNER G KUHR	ZETTACORE, INC	Attendee	Registered
SEONG JUNG KWON	KOREA ADVANCED INSTITUTE OF SCEINCE AND TECHNOLOGY	Poster Presenter	Registered
DOHYOUNG KWON	KOREA ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY	Poster Presenter	Registered
DONGIL LEE	WESTERN MICHIGAN UNIVERSITY	Poster Presenter	Registered
SANG BOK LEE	UNIVERSITY OF MARYLAND	Speaker	Registered
JEROME LENHARD	KODAK	Attendee	Registered
YING LI	GEORGETOWN UNIVERSITY	Poster Presenter	Registered
KUAN-JIUH LIN	NATIONAL CHUNG-HSING UNIVERSITY	Poster Presenter	Accepted
JEFFREY W LONG	NAVAL RESEARCH LABORATORY	Speaker	Registered
ENCARNA A LORENZO	UNIVERSIDAD AUTONOMA DE MADRID	Poster Presenter	Registered
JUSTIN C LYTLE	NAVAL RESEARCH LABORATORY	Poster Presenter	Registered
MARCIN MAJDA	UNIVERSITY OF CALIFORNIA, BERKELEY	Poster Presenter	Registered
TOBIN J MARKS	NORTHWESTERN UNIVERSITY	Speaker	Registered
CHARLES CL MCCRORY	STANFORD UNIVERSITY	Poster Presenter	Registered
PAUL MCEUEN	CORNELL UNIVERSITY	Speaker	Registered
ERIK J MENKE	UCLA	Poster Presenter	Registered
WUJIAN MIAO	UNIVERSITY OF SOUTHERN MISSISSIPPI	Attendee	Registered
JOSEF MICHL	UNIVERSITY OF COLORADO AT BOULDER	Speaker	Registered
SETH A MILLER	ZETTACORE	Attendee	Registered
MICHAEL V MIRKIN	QUEENS COLLEGE - CUNY	Attendee	Registered
VLADIMIRO MUJICA	NORTHWESTERN UNIVERSITY	Speaker	Registered
ROYCE W MURRAY	UNIVERSITY OF NORTH CAROLINA, CHAPEL HILL	Discussion Leader	Registered
ZOLTAN NAGY	ARGONNE NATIONAL LABORATORY	Attendee	Registered
MICHAEL L NORTON	MARSHALL UNIVERSITY	Poster Presenter	Registered
MARC OVADIA	UNIVERSITY OF CHICAGO	Attendee	Registered
FELIX PARIENTE	UNIVERSIDAD AUTONOMA DE MADRID	Poster Presenter	Registered
SOHYUN PARK	LUDWIG-MAXIMILIANS-UNIVERSITAET-MUENCHEN	Poster Presenter	Registered
JI-WOONG PARK	ROWLAND INSTITUTE AT HARVARD	Speaker	Registered
BRUCE A PARKINSON	COLORADO STATE UNIVERSITY	Attendee	Registered
TOMMIE L PITTMAN	UNIVERSITY OF SOUTHERN MISSISSIPPI	Attendee	Registered
JOSHUA B RATCHFORD	STANFORD UNIVERSITY	Attendee	Registered
JOHN R REYNOLDS	UNIVERSITY OF FLORIDA	Speaker	Registered
JASON E RITCHIE	UNIVERSITY OF MISSISSIPPI	Poster Presenter	Registered
DOMINIC ROCHEFORT	UNIVERSITE DE MONTREAL	Poster Presenter	Registered
DEBRA R ROLISON	NAVAL RESEARCH LABORATORY	Discussion Leader	Registered
FAYE RUBINSON	GEORGETOWN UNIVERSITY	Poster Presenter	Registered
ISRAEL RUBINSTEIN	WEIZMANN INSTITUTE OF SCIENCE	Poster Presenter	Registered
SAID SADKI	CEA GRENoble	Poster Presenter	Registered
CURTIS SHANNON	AUBURN UNIVERSITY	Attendee	Registered
ROB SIDES	GAMRY INSTRUMENTS	Attendee	Registered
KATARZYNA SLOWINSKA	CALIFORNIA STATE UNIVERSITY, LONG BEACH	Poster Presenter	Registered
KRZYSZTOF SLOWINSKI	CALIFORNIA STATE UNIVERSITY, LONG BEACH	Poster Presenter	Registered
MARK T SPITLER	U.S. DEPARTMENT OF ENERGY	Poster Presenter	Registered
IRINA B SVIR	KHARKOV NATIONAL UNIVERSITY OF RADIO ELECTRONICS	Poster Presenter	Registered
KAREN SWIDER-LYONS	NAVAL RESEARCH LABORATORY	Speaker	Registered
ROBERT C TENENT	ZETTACORE, INC.	Attendee	Registered
YU-YE TONG	GEORGETOWN UNIVERSITY	Speaker	Registered
HARALAMPOS TSAPRAILIS	UNIVERSITY OF CALGARY	Poster Presenter	Registered
BURAK ULGUT	CORNELL UNIVERSITY	Poster Presenter	Registered
INES URDANETA	UNIVERSITE PARIS-SUD, CAMPUS ORSAY	Poster Presenter	Registered

PETR VANYSEK	NORTHERN ILLINOIS UNIVERSITY	Poster Presenter	Registered
ALEXANDER VASKEVICH	WEIZMANN INSTITUTE OF SCIENCE	Poster Presenter	Registered
IRIS B VISOLY-FISHER	ARIZONA STATE UNIVERSITY	Poster Presenter	Registered
M. STANLEY WHITTINGHAM	SUNY AT BINGHAMTON	Attendee	Registered
ANDRZEJ WIECKOWSKI	UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN	Attendee	Registered
YAIR H WIJSBOOM	WEIZMANN INSTITUTE OF SCIENCE	Attendee	Registered
MARY BETH WILLIAMS	PENNSYLVANIA STATE UNIVERSITY	Poster Presenter	Registered
JACOB H WOODRUFF	STANFORD UNIVERSITY	Poster Presenter	Registered
RYO YAMADA	OSAKA UNIVERSITY	Poster Presenter	Registered
LI MEI YANG	UNIVERSITY OF CALIFORNIA, IRVINE	Poster Presenter	Registered
BO ZHANG	PENN STATE UNIVERSITY	Poster Presenter	Registered
CYNTHIA G ZOSKI	NEW MEXICO STATE UNIVERSITY	Attendee	Registered
SHOUZHONG ZOU	MIAMI UNIVERSITY	Poster Presenter	Registered

ELECTROCHEMISTRY
2006 Gordon Research Conferences

Conference Program

February 12-17, 2006
Santa Ynez Valley Marriott
Buellton, CA

Chair: **Hector Abruna**

Vice Chair: **Carol Korzeniewski**

CONTRIBUTORS

Gordon Research Conferences
National Science Foundation
Air Force Office of Scientific Research
Army Research Office
Department of Energy
Kavli Research Institute
Energizer
Rohm & Haas
Cornell Fuel Cell Institute
Bio Analytical Systems
CH Instruments
Gamry Instruments

SUNDAY

4:00 pm - 9:00 pm Arrival and Check-in

4:30 pm - 6:00 pm Chair's Reception

6:00 pm Dinner

7:30 pm - 9:30 pm **INAUGURAL SESSION:**

Discussion Leader: **Norman Hackerman** (University of Texas)

7:30 pm - 8:20 pm **Allen J. Bard** (U.T. Austin)
"New Approaches to Electrocatalysis"

8:20 pm - 8:30 pm Discussion

8:30 pm - 9:20 pm **Royce W. Murray** (U.N.C. Chapel Hill)
"Size and environment-dependent electrochemistry of gold nanoparticles"

9:20 pm - 9:30 pm Discussion

MONDAY

7:30 am - 8:30 am Breakfast

8:30 am Group Photo

9:00 am - 12:30 pm	MOLECULAR ELECTRONICS
	Discussion Leader: Héctor D. Abruña (Cornell)
9:00 am - 9:50 am	Vladimiro Mújica (Northwestern) "A Unified View of Molecular Conductance and Electron Transfer Reactions"
9:50 am - 10:00 am	Discussion
10:00 am	Coffee Break
10:30 am - 11:20 am	Paul McEuen (Cornell) "Electronics, Mechanics, And Sensing With Carbon Nanotube Transistors"
11:20 am - 11:30 am	Discussion
11:30 am - 12:20 pm	Jiwoong Park (Harvard) "Nanotransistors with Light: Electroluminescence and Photocurrent Generation in Nanostructures"
12:20 pm - 12:30 pm	Discussion
12:30 pm	Lunch
1:30 pm - 4:00 pm	Free Time
4:30 pm - 6:00 pm	Poster Session I
6:00 pm	Dinner
7:30 pm - 9:30 pm	SUPRAMOLECULAR E-CHEM
	Discussion Leader: Allen J. Bard (U.T. Austin)
7:30 pm - 8:20 pm	Mary Beth Williams (Penn State) "iDNA: from recognition to robots"
8:20 pm - 8:30 pm	Discussion
8:30 pm - 9:20 pm	Josef Michl (Colorado) "Electrical Conduction Through Molecular Wires"
9:20 pm - 9:30 pm	Discussion

TUESDAY

7:30 am - 8:30 am	Breakfast
9:00 am - 12:30 pm	ELECTRON TRANSFER AND ELECTROCATALYSIS
	Discussion Leader: Juan M. Feliu (U. Alicante)
9:00 am - 9:50 am	Harry B. Gray (Cal Tech) "Electron Tunneling Through Proteins"
9:50 am - 10:00 am	Discussion
10:00 am	Coffee Break
10:30 am - 11:20 am	Mike Mirkin (Queens College - CUNY) "Quantitative electrochemistry on the nanoscale"
11:20 am - 11:30 am	Discussion
11:30 am - 12:20 pm	Katrina Krishner (TU Munich)

"Cooperative Phenomena During CO Electrooxidation on Pt"

12:20 pm - 12:30 pm Discussion

12:30 pm Lunch

1:30 pm - 4:00 pm Free Time

4:30 pm - 6:00 pm Poster Session I

6:00 pm Dinner

7:30 pm - 9:30 pm

CONDUCTING POLYMERS

Discussion Leader: **Shaowei Chen** (UC Santa Cruz)

7:30 pm - 8:20 pm **Tobin Marks** (Northwestern)

"Self-Assembly Routes to Organic Electronics"

8:20 pm - 8:30 pm Discussion

8:30 pm - 9:20 pm **John Reynolds** (Florida)

"The Push and Pull of Electrons in Electroactive Conjugated Polyheterocycles"

9:20 pm - 9:30 pm Discussion

WEDNESDAY

7:30 am - 8:30 am Breakfast

9:00 am - 12:30 pm

YOUNG PUNKS

Discussion Leader: **Royce Murray** (U.N.C. Chapel Hill)

9:00 am - 9:35 am **Stefan Bernhard** (Princeton)

"Orchestrating Electron Transfer: From OLED's to Photoinduced Hydrogen Production"

9:35 am - 9:45 am Discussion

9:45 am - 10:20 am **Yu-Ye Tong** (Georgetown)

"Coupling Interfacial Electrochemistry with Nuclear Magnetic Resonance: An Electronic Perspective"

10:20 am - 10:30 am Discussion

10:30 am Coffee Break

11:00 am - 11:35 am **Sang Bok Lee** (Maryland)

"Template Synthesis of Nanotubes: Controlling Dimensions and Applications."

11:35 am - 11:45 am Discussion

11:45 am - 12:20 pm **Jeff Long** (Naval Res. Labs.)

"Multifunctional Hybrid Nanoarchitectures As Electrode Structures For High-Performance Electrochemical Capacitors"

12:20 pm - 12:30 pm Discussion

12:30 pm Lunch

1:30 pm - 4:00 pm Free Time

4:30 pm - 6:00 pm Poster Session II

6:00 pm Dinner

7:00 pm - 7:30 pm Business Meeting
(Nominations for the next Vice Chair; Fill out Conference Evaluation Forms; Discuss future Site & Scheduling preferences; Election of the next Vice Chair)

7:30 pm - 9:30 pm **OPEN SESSION**

Discussion Leader: **Carol Korzeniewski** (Texas Tech)

THURSDAY

7:30 am - 8:30 am Breakfast

9:00 am - 12:30 pm **FUEL CELLS**

Discussion Leader: **Debra Rolison** (Naval Res. Labs.)

9:00 am - 9:50 am **Karen Swider-Lyons** (Naval Res. Labs.)
"Using Metal Oxides and Phosphates Supports to Improve Electrocatalysis in PEM Fuel Cells"

9:50 am - 10:00 am Discussion

10:00 am Coffee Break

10:30 am - 11:20 am **Enrique Herrero** (U. Alicante)
"Electrocatalysis On Nanoparticle Electrodes: Effect Of The Surface Structure And Composition"

11:20 am - 11:30 am Discussion

11:30 am - 12:20 pm **Helmut Baltruschat** (U. Bonn)
"Organic Adsorbates At Steps And At Monoatomic Rows Of Pd Decorating Stepped Au-Electrodes"

12:20 pm - 12:30 pm Discussion

12:30 pm Lunch

1:30 pm - 4:00 pm Free Time

4:30 pm - 6:00 pm Poster Session II

6:00 pm Dinner

7:30 pm - 9:30 pm **CELLS AND MARACAS**

Discussion Leader: **Kathy Ayers** (Energizer)

7:30 pm - 8:20 pm **Christian Amatore** (ENS Paris)
"A Few Hints To Understand Complexity In Brain: From Exocytosis To More Integrated Processes"

8:20 pm - 8:30 pm Discussion

8:30 pm - 9:20 pm **Luis Echegoyen** (Clemson U.)
"Chemical and Electrochemical Properties of Fullerenes and their Derivatives: from C₆₀ to M₃N@C_{2n} (M=Sc, Y, Er and n=39, 40)"

9:20 pm - 8:30 pm Discussion

FRIDAY

7:30 am - 8:30 am Breakfast

9:00 am Departure

FINANCIAL STATUS REPORT

(Follow instructions on the back.)

1. FEDERAL AGENCY AND ORGANIZATIONAL ELEMENT TO WHICH REPORT IS SUBMITTED Earlette M. Robinson U.S. Department of Energy/ACQ Chicago Operations Office 9800 South Cass Avenue Argonne, IL 60439		2. FEDERAL GRANT OR OTHER IDENTIFYING NUMBER DE-FG02-06ER15774		OMB Approved No. 80-R0180	
3. RECIPIENT ORGANIZATION (Name and complete address, including ZIP code) Gordon Research Conferences 512 Liberty Lane West Kingston, RI 02892-0984		4. EMPLOYER IDENTIFICATION NUMBER 050300482			
		5. RECIPIENT ACCOUNT NUMBER OR IDENTIFYING NO.			
		6. FINAL REPORT ☒ YES ☐ NO		7. BASIS ☒ CASH ☐ ACCRUAL	
8. PROJECT/GRANT PERIOD (See instructions)		9. PERIOD COVERED BY THIS REPORT			
FROM (Month, day, year) 02/12/2006	TO (Month, day, year) 02/17/2006	FROM (Month, day, year) 02/12/2006		TO (Month, day, year) 02/17/2006	
10. STATUS OF FUNDS					
a. Net outlays previously reported				\$ 0.00	
b. Total outlays this report period				5,000	
c. Less: Program income credits				0.00	
d. Net outlays this report period (Line a minus line c)				5,000	
e. Net outlays to date (Line a plus line d)				5,000	
f. Less: Non-Federal share of outlays				0	
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		a TYPE OF RATE (Place "X" in appropriate box) ☐ PROVISIONAL ☐ PREDETERMINED ☐ FINAL ☐ 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.) Electrochemistry					
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 04/03/2007	
		TYPED OR PRINTED NAME AND TITLE Nancy Ryan Gray, Director		TELEPHONE (Area code, number, and extension) 401-783-4011	
DISTRIBUTION: Copy 1 - Official Grant File Copy 2 - Grants Section, FAAB Copy 3 - Grantee			STANDARD FORM 269 (7-76) Prescribed by Office of Management and Budget Cir. No. A-110		

FINANCIAL ASSISTANCE
PROPERTY CERTIFICATION

AWARDEE Gordon Research Conferences

AWARD NO. DE-FG02-06ER15774

The DOE Assistance Rules, 10 CFR 600, define property acquired under the terms of the award as either exempt (purchased with DOE operating dollars) or non-exempt (acquired with DOE capital equipment dollars, Government-furnished or acquired from the Government excess property lists). Non-exempt property is normally identified in the award document as Government-owned and requires a Semi-Annual Summary Report of DOE-Owned Plant and Capital Equipment to be submitted **annually** pursuant to DOE regulations.

In order to facilitate grant closeout, please review your property records and complete the applicable Item I, for exempt property, or Item II, for non-exempt property, of this certificate and return it to the Contracting Officer as soon as possible.

- I. There was no reportable residual exempt property of any description at the completion of this award.

SIGNATURE 

TITLE Director

DATE 04/03/2007

- II A final inventory of residual non-exempt property is enclosed for the category (or categories) checked below:

() A. NONEXPENDABLE PERSONAL PROPERTY, Federally-Owned (acquired with Capital Equipment funds, Government-furnished equipment, or through excess)

() B. EXPENDABLE PERSONAL PROPERTY (SUPPLIES), if fair market value exceeds \$5,000.

Except for the category (categories) checked above, no other reportable residual property Of any description remained on this award at its completion.

SIGNATURE _____

TITLE _____ DATE _____

PATENT CERTIFICATION

Gordon Research Conferences

Awardee

☐ Interim Certification

DOE Prime and/or Subcontract Nos.

☒ Final Certification

Awardee hereby certifies unless indicated to the contrary, that:

1. All procedures for identifying and disclosing subject inventions as required by the patent clause of the contract have been followed throughout the reporting period.
2. There were no subcontracts or purchase orders involving research, development, and demonstration except as follows: (a separate certification must be provided to DOE for each subcontract or purchase order awarded.)
3. No inventions or discoveries were made or conceived in the course of or under this contract other than the following (Certification includes ☐, does not include ☐ all subcontracts):

TITLE

INVENTOR

DATE REPORTED

DOE "S" NO.*

NONE

4. The completion date of this contract is as follows: 02/17/2006 Award# DE-FG02-06ER15774
5. The following period is covered by this certification:

02/12/2006

Month Day Year

to 02/17/2006

Month Day Year

Gordon Research Conferences

Contractor


Signature

PO Box 984

Director

Title

W. Kingston, RI 02892

Address

04/03/2007

Date of Certification

* Also include Subcontract No. if available.

NOTE: A positive certification for this Item 3 does not negate the requirement for furnishing to DOE a fully executed Patent Certification from each subawardee identified in Item 2.