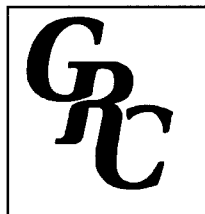


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Nancy Ryan Gray, Ph.D.

Director

Gordon Research Conference on Electrodeposition

FINAL PROGRESS REPORT

ONR

N00014-06-1-0803

The Gordon Research Conference (GRC) on Gordon Research Conference on Electrodeposition was held at Colby-Sawyer College, New London, NH from July 30, 2006 through August 4, 2006. The Conference was well-attended with 98 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In designing the formal speakers program, emphasis was placed on current unpublished research and discussion of the future target areas in this field.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 As you know, in the interest of promoting the presentation of unpublished and frontier-breaking research, Gordon Research Conferences does not permit publication of meeting proceedings.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.

Professor Jay A. Switzer
2006 Conference Chair

20061127111

Electrodeposition

Participant List

Colby-Sawyer College
Jul 30-Aug 4, 2006

Name	Organization	Participation	Status
PHILIPPE ALLONGUE	CNRS UMR 7643	Discussion Leader	Registered
ZHI LIANG BAO	SIMON FRASER UNIVERSITY	Poster Presenter	Registered
CARLOS R BEAUCHAMP	NIST	Attendee	Registered
UGO BERTOCCI	NIST	Attendee	Registered
MASSIMILIANO BESTETTI	POLITECNICO DI MILANO	Attendee	Registered
KALAPI BISWAS	PURDUE UNIVERSITY	Poster Presenter	Registered
ERIC W BOHANNAN	UNIVERSITY OF MISSOURI - ROLLA	Attendee	Registered
MEGAN E BOURG	UNIVERSITY OF CALIFORNIA, IRVINE	Poster Presenter	Registered
STANKO R BRANKOVIC	UNIVERSITY OF HOUSTON	Discussion Leader	Registered
NIHARIKA BURLA	UNIVERSITY OF MISSOURI, ROLLA	Poster Presenter	Registered
SEUNGIL CHO	UNIVERSITY OF MARYLAND	Poster Presenter	Registered
KYOUNG-SHIN CHOI	PURDUE UNIVERSITY	Speaker	Registered
PAULA COJOCARU	POLITECNICO DI MILANO	Attendee	Registered
THOMAS W. CORNELIUS	GESELLSCHAFT FUR SCHWERIONENFORSCHUNG	Poster Presenter	Registered
RICHARD O CROWTHER	COLUMBIA UNIVERSITY	Attendee	Registered
CALVIN P DAROSA	UNIVERSITY OF CALIFORNIA, BERKELEY	Poster Presenter	Registered
DESPINA DAVIS	LOUISIANA STATE UNIVERSITY	Attendee	Registered
BANGA O DHEGO	UNIVERSITY OF GEORGIA	Poster Presenter	Registered
MARCOS C ESTEVES	LOUISIANA STATE UNIVERSITY	Poster Presenter	Registered
JAN L FRANSAER	KULEUVEN, DEPT. MTM	Discussion Leader	Registered
YASUHIRO FUKUNAKA	KYOTO UNIVERSITY	Discussion Leader	Registered
JEREMY J GRAY	LAWRENCE LIVERMORE NATIONAL LABORATORY	Poster Presenter	Registered
CAROLYNN D GROSH	UNIVERSITY OF WASHINGTON	Poster Presenter	Registered
LIAN GUO	JOHNS HOPKINS UNIVERSITY	Poster Presenter	Registered
HELGA C HALVORSEN	OTTAWA UNIVERSITY	Poster Presenter	Registered
MADOKA HASEGAWA	WASEDA UNIVERSITY	Poster Presenter	Registered
MELISSA S HASENBANK	UNIVERSITY OF WASHINGTON	Poster Presenter	Registered
GARY HODES	WEIZMANN INSTITUTE OF SCIENCE	Speaker	Registered
TAKAYUKI HOMMA	WASEDA UNIVERSITY	Speaker	Registered
JONG-DAL HONG	UNIVERSITY OF INCHEON	Poster Presenter	Registered
MASSIMO INNOCENTI	UNIVERSITY OF FLORENCE	Poster Presenter	Registered
NAGARAJAN JAYARAJU	UNIVERSITY OF GEORGIA	Poster Presenter	Registered
KAREN L KAVANAGH	SIMON FRASER UNIVERSITY	Speaker	Registered
SOO KIL KIM	NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY	Attendee	Registered
JAY Y KIM	UNIVERSITY OF GEORGIA	Poster Presenter	Registered
YOUN-GUEN KIM	UNIVERSITY OF GEORGIA	Poster Presenter	Registered
DAVID M KIRKWOOD	UNIVERSITY OF VIRGINIA	Poster Presenter	Registered
ELIZABETH A KULP	UNIVERSITY OF MISSOURI-ROLLA	Poster Presenter	Registered
GABRIELA LACCONI	UNIVERSITY NATIONAL CORDOBA	Poster Presenter	Registered
ALESSANDRO LAVACCHI	UNIVERSITY OF FLORENCE	Poster Presenter	Registered
SANG BOK LEE	UNIVERSITY OF MARYLAND	Poster Presenter	Registered
JAE H LEE	HONGIK UNIVERSITY	Poster Presenter	Registered
CHI-WOO LEE	KOREA UNIVERSITY	Poster Presenter	Registered
STUART M LINDSAY	ARIZONA STATE UNIVERSITY	Speaker	Registered
RAN LIU	UNIVERSITY OF MARYLAND	Poster Presenter	Registered

JEFFREY W LONG	NAVAL RESEARCH LABORATORY	Poster Presenter	Registered
OLAF MAGNUSSEN	UNIVERSITAET KIEL	Speaker	Registered
JONATHAN J MALLET	NIST	Poster Presenter	Registered
THOMAS MALLOUK	PENNSYLVANIA STATE UNIVERSITY	Speaker	Registered
TIM P MCCORMAC	INSTITUTE OF TECHNOLOGY TALLAGHT DUBLIN	Poster Presenter	Registered
ROHIT MISHRA	LOUISIANA STATE UNIVERSITY	Poster Presenter	Registered
THOMAS P MOFFAT	NIST	Vice Chair	Registered
RONALD J MORRISSEY	TECHNIC, INC.	Attendee	Registered
GUOJUN MU	UNIVERSITY OF MISSOURI ROLLA	Poster Presenter	Registered
SHUJI NAKANISHI	OSAKA UNIVERSITY	Speaker	Registered
JEFF B NELSON	UNIVERSITY OF WASHINGTON	Poster Presenter	Registered
ZUKHRA I NIAZIMBETOVA	ROHM AND HAAS ELECTRONIC MATERIALS	Attendee	Registered
CHRISTINE ORME	LAWRENCE LIVERMORE NATIONAL LABORATORY	Speaker	Registered
ANDRE A PASA	DEPARTAMENTO DE FISICA - UFSC	Poster Presenter	Registered
GYANARANJAN PATTANAIK	UNIVERSITY OF VIRGINIA	Poster Presenter	Registered
REGINALD M PENNER	UNIVERSITY OF CALIFORNIA	Speaker	Registered
LASZLO PETER	HUNGARIAN ACADEMY OF SCIENCE	Poster Presenter	Registered
ELIZABETH PODLAHA	LOUISIANA STATE UNIVERSITY	Attendee	Registered
JONATHAN REID	NOVELLUS	Speaker	Registered
ERIC ROUYA	UNIVERSITY OF VIRGINIA MSE	Poster Presenter	Registered
AUORE H RUDOLF	EPFL/SB/IPN/LPMN	Attendee	Registered
MIRIAM AGUILAR SANCHEZ	UNIVERSIDAD AUTONOMA METROPOLITANA	Poster Presenter	Registered
ESPEN SANDNES	NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY	Poster Presenter	Registered
SHAIBAL K SARKAR	UNIVERSITY OF MISSOURI AT ROLLA	Poster Presenter	Registered
PATRIK SCHMUKI	UNIVERSITY OF ERLANGEN	Speaker	Registered
DANIEL SCHWARTZ	UNIVERSITY OF WASHINGTON	Discussion Leader	Registered
WALTHER SCHWARZACHER	UNIVERSITY OF BRISTOL	Speaker	Registered
PETER SEARSON	JOHNS HOPKINS UNIVERSITY	Speaker	Registered
TALI SEHAYEK	WEIZMANN INSTITUTE OF SCIENCE	Poster Presenter	Registered
WENBO SHAO	UNIVERSITY OF VIRGINIA	Poster Presenter	Registered
MATTHEW J SIEGFRIED	PURDUE UNIVERSITY	Poster Presenter	Registered
THOMAS A SORENSON	ZETTACORE, INC.	Attendee	Registered
PAUL SOUTHERN	UNIVERSITY OF BRISTOL	Poster Presenter	Registered
GERY R STAFFORD	NIST	Speaker	Registered
ELLEN M. P. STEINMILLER	PURDUE UNIVERSITY	Poster Presenter	Registered
JOHN L STICKNEY	THE UNIVERSITY OF GEORGIA	Speaker	Registered
ERIK B SVEDBERG	NIST	Poster Presenter	Registered
JAY A SWITZER	UNIVERSITY OF MISSOURI-ROLLA	Chair	Registered
FERNANDA M TAKATA	INSTITUTO TECNOLÓGICO DE AERONÁUTICA	Poster Presenter	Registered
JAN B TALBOT	UNIVERSITY OF CALIFORNIA, SAN DIEGO	Speaker	Registered
SANKARA SARMA V TATIPARTI	UNIVERSITY OF FLORIDA	Poster Presenter	Registered
CHANDRU THAMBIDURAI	UNIVERSITY OF GEORGIA	Poster Presenter	Registered
MARIA EUGENIA TOIMIL MOLARES	GESELLSCHAFT FUER SCHWERIONENFORSCHUNG	Poster Presenter	Registered
MARGITTA UHLEMANN	IFW-DRESDEN	Poster Presenter	Registered
KOHEI UOSAKI	HOKKAIDO UNIVERSITY	Speaker	Registered
DEEPA VAIRAVAPANDIAN	UNIVERSITY OF GEORGIA	Poster Presenter	Registered
NATASA VASILJEVIC	SANDIA NATIONAL LABORATORIES	Poster Presenter	Registered
ALEXANDER VASKEVICH	WEIZMANN INSTITUTE OF SCIENCE	Poster Presenter	Registered
VENKATRAM VENKATASAMY	UNIVERSITY OF GEORGIA	Attendee	Registered
ALAN WEST	COLUMBIA UNIVERSITY	Speaker	Registered
MARK J WILLEY	COLUMBIA UNIVERSITY	Poster Presenter	Registered
GUANG YU WU	BRISTOL UNIVERSITY	Poster Presenter	Registered
GIOVANNI ZANGARI	UNIVERSITY OF VIRGINIA	Speaker	Registered

Electrodeposition

Program

July 30 - August 4, 2006
Colby-Sawyer College
New London, NH

Chair: Jay A Switzer

Vice Chair: Thomas P Moffat

Electrodeposition is fast becoming the method of choice for producing films and nanostructures of metals, semiconductors, and metal oxides. In electrodeposition, solid films are deposited at the electrode surface from molecular and ionic precursors in solution. The morphology and orientation of electrodeposited films can be precisely tailored by controlling the pH, solution additives, and applied potential. Remarkable progress has been made in recent years to exploit the "wet" aspects of electrodeposition to produce architectures which may not be accessible to ultra-high-vacuum methods.

The Gordon Research Conference on Electrodeposition is THE conference to attend if you are interested in sharing and learning the most recent developments in electrochemical deposition. The topics at this year's conference are molecular electronics, nucleation and growth, epitaxial electrodeposition, shape control, magnetic materials, nanostructured materials, and electrodeposition for microelectronics. In addition to invited talks by leaders in the field, we will also have two lively poster sessions. Top posters will be selected for a session of short talks on Wednesday evening.

The Electrodeposition GRC is known for a collegial atmosphere which encourages close interaction between young investigators and international experts. At what other conference can you discuss the latest developments in electrodeposition while hiking up Mount Kearsarge? We anticipate having some funds to help graduate students and postdoctoral associates attend the meeting. The attendance of this popular conference is limited, so early registration is strongly advised.

We are grateful for financial support from the following:

Gordon Research Conferences
Army Research Office
Office of Naval Research
IBM
Intel
Brinkmann Instruments
Princeton Applied Research
Nature Publishing Group
University of Missouri-Rolla

SUNDAY

2:00 pm - 11:00 pm	Arrival and Check-in
6:00 pm	Dinner
7:30 pm - 9:30 pm	Opening Session: Organic Monolayers and Molecular Electronics Discussion Leader: Tom Mallouk (Penn State University, USA)
7:30 pm - 8:20 pm	Stuart Lindsay (Arizona State University, USA) "Molecular Electronics - electrochemistry by any other name"
8:20 pm - 8:30 pm	Discussion
8:30 pm - 9:20 pm	Kohei Uosaki (Hokkaido University, Japan) "Deposition of metals on organic monolayers"
9:20 pm - 9:30 pm	Discussion

MONDAY

7:30 am - 8:30 am	Breakfast
9:00 am - 12:30 pm	Nucleation and Growth

	Discussion Leader: Jay Switzer (University of Missouri-Rolla, USA)
9:00 am - 9:50 am	Peter Searson (Johns Hopkins University, USA) "Nucleation and growth in electrodeposition"
9:50 am - 10:00 am	Discussion
10:00 am	Coffee Break / Conference Photo
10:30 am - 11:20 am	Gery Stafford (NIST, USA) "Surface and growth stresses at solid electrodes"
11:20 am - 11:30 am	Discussion
11:30 am - 12:20 pm	Walther Schwarzacher (University of Bristol, UK) "Surface roughness of electrodeposited metal films"
12:20 pm - 12:30 pm	Discussion
12:30 pm	Lunch
1:30 pm - 4:00 pm	Free Time
4:00 pm - 6:00 pm	Poster Session I
6:00 pm	Dinner
7:30 pm - 9:30 pm	Epitaxial Electrodeposition Discussion Leader: Stanko Brankovic (University of Houston, USA)
7:30 pm - 8:20 pm	Olaf Magnussen (University of Kiel, Germany) "Structure-growth relationships in homoepitaxial growth"
8:20 pm - 8:30 pm	Discussion
8:30 pm - 9:20 pm	John Stickney (University of Georgia, USA) "Metal electrochemical atomic layer epitaxy"
9:20 pm - 9:30 pm	Discussion

TUESDAY

7:30 am - 8:30 am	Breakfast
9:00 am - 12:30 pm	Shape Control Discussion Leader: Dan Schwartz (University of Washington, USA)
9:00 am - 9:50 am	Christine Orme (Lawrence Livermore National Lab, USA) "A molecular view of adsorbate effects during crystallization"
9:50 am - 10:00 am	Discussion
10:00 am	Coffee Break
10:30 am - 11:20 am	Kyoung-Shin Choi (Purdue University, USA) "Directing habit and branching growth during electrocrystallization"
11:20 am - 11:30 am	Discussion
11:30 am - 12:20 pm	Shuji Nakanishi (Osaka University, Japan) "Formation of micro- and nano-sized ordered structures by oscillatory electrodeposition"
12:20 pm - 12:30 pm	Discussion
12:30 pm	Lunch
1:30 pm - 4:00 pm	Free Time
4:00 pm - 6:00 pm	Poster Session I
6:00 pm	Dinner
7:30 pm - 9:30 pm	Magnetic Materials Discussion Leader: Philippe Allongue (CNRS, Palaiseau, France)
7:30 pm - 8:20 pm	Giovanni Zangari (University of Virginia, USA) "Magnetic materials by electrodeposition"
8:20 pm - 8:30 pm	Discussion
8:30 pm - 9:20 pm	Karen Kavanaugh (Simon Fraser University, Canada) "Epitaxial growth of magnetic metals on GaAs via electrodeposition"
9:20 pm - 9:30 pm	Discussion

WEDNESDAY

7:30 am - 8:30 am	Breakfast
9:00 am - 12:30 pm	Nanotubes and Nanowires Discussion Leader: Yasuhiro Fukunaka (Kyoto University, Japan)
9:00 am - 9:50 am	Tom Mallouk (Penn State University, USA) "Electrodeposition and applications of nanowires"
9:50 am - 10:00 am	Discussion
10:00 am	Coffee Break
10:30 am - 11:20 am	Patrik Schmuki (University of Erlangen, Germany) "TiO ₂ nanotubes - formation, properties, and smart electrodeposition"
11:20 am - 11:30 am	Discussion
11:30 am - 12:20 pm	Reg Penner (University of California-Irvine, USA) "Nanowire synthesis by electrochemical step edge decoration"
12:20 pm - 12:30 pm	Discussion
12:30 pm	Lunch
1:30 pm - 4:00 pm	Free Time
4:00 pm - 6:00 pm	Poster Session II
6:00 pm	Dinner
7:30 pm - 9:30 pm	Recent News: Poster Summaries and Short Talks Discussion Leader: Tom Moffat (NIST, USA)

THURSDAY

7:30 am - 8:30 am	Breakfast
8:30 am - 9:00 am	<u>Business Meeting</u> (Nominations for the next Vice Chair; Fill out Conference Evaluation Forms; Discuss future Site & Scheduling preferences; Election of the next Vice Chair)
9:00 am - 12:30 pm	Nanocrystals and Nanocomposites Discussion Leader: Jan Fransaer (K.U. Leuven, Belgium)
9:00 am - 9:50 am	Gary Hodes (Weizmann Institute, Israel) "Electrodeposition of CdSe nanocrystals"
9:50 am - 10:00 am	Discussion
10:00 am	Coffee Break
10:30 am - 11:20 am	Takayuki Homma (Waseda University, Japan) "Electroless fabrication of metal nanoparticles in a microfluidic reactor"
11:20 am - 11:30 am	Discussion
11:30 am - 12:20 pm	Jan Talbot (University of California-San Diego, USA) "Electrocodeposition of nanocomposites"
12:20 pm - 12:30 pm	Discussion
12:30 pm	Lunch
1:30 pm - 4:00 pm	Free Time
4:00 pm - 6:00 pm	Poster Session II
6:00 pm	Dinner
7:30 pm - 9:30 pm	Electrodeposition for Microelectronics Discussion Leader: Tom Moffat (NIST, USA)
7:30 pm - 8:20 pm	Jon Reid (Novellus, USA) "Electrochemical Requirements for Damascene Cu Electroplating"
8:20 pm - 8:30 pm	Discussion
8:30 pm - 9:20 pm	Alan West (Columbia University, USA) "Characterization of electrodeposition processes using microfluidics"
9:20 pm - 9:30 pm	Discussion

FRIDAY

7:30 am - 8:30 am	Breakfast	9:00 am Depart
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FINANCIAL STATUS REPORT
(Follow instructions on the back.)

1. FEDERAL AGENCY AND ORGANIZATIONAL ELEMENT TO WHICH REPORT IS SUBMITTED ELLEN S. URKLINSKI CONTRACTS/GRANTS ADMINISTRATOR OFFICE OF NAVAL RESEARCH 495 SUMMER STREET BOSTON MA 02210-2109		2. FEDERAL GRANT OR OTHER IDENTIFYING NUMBER N00014-06-1-0803	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		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) FROM (Month, day, year) TO (Month, day, year) 05/10/2006 09/30/2006		9. PERIOD COVERED BY THIS REPORT FROM (Month, day, year) TO (Month, day, year) 05/10/2006 09/30/2006	
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
12. REMARKS (Attach any explanations deemed necessary or information required by Federal sponsoring agency in compliance with governing legislation.) Gordon Research Conference on Electrodeposition			
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 21, 2006
		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	