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GORDON RESEARCH CONFERENCES *frontiers of science*
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Nancy Ryan Gray, Ph.D.
Director

GORDON RESEARCH CONFERENCE

on 2003 Gordon Research Conference on Partial Support of the Photoions:
Photoionizations and Photodetachment

FINAL PROGRESS REPORT

DOE
DE-FE02-03ER15427

The Gordon Research Conference (GRC) on 2004 Gordon Research Conference on Biopolymers was held at Queen's College, Oxford, United Kingdom on 9/21-26/2003. The Conference was well-attended with 57 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In designing the formal speakers program, emphasis was placed on current unpublished research and discussion of the future target areas in this field.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 As you know, in the interest of promoting the presentation of unpublished and frontier-breaking research, Gordon Research Conferences does not permit publication of meeting proceedings.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. John HD. Eland
2003 Conference Chair

PHOTOIONS, PHOTOIONIZATION & PHOTODETACH.

Queen's College
Sep 21-26, 2003

Name	Organization	Participation	Status
SEppo O AKSELA	UNIVERSITY OF OULU	Attendee	Registered
UWE E BECKER	FRITZ-HABER-INSTITUTE OF THE	Discussion Leader	Registered
MAURIZIO BECUCCI	LENS AND DEP. CHEMISTRY - UNIVERSITA DI FIRENZE	Poster Presenter	Registered
SUSAN M BELLM	UNIVERSITY OF NOTTINGHAM	Poster Presenter	Registered
T M BERNHARDT	FREIE UNIVERSITAET BERLIN	Speaker	Registered
MICHAEL SHANE BOWEN	UNIVERSITY OF CALIFORNIA, SAN DIEGO	Poster Presenter	Registered
STEPHEN E BRADFORTH	UNIVERSITY OF SOUTHERN CALIFORNIA	Speaker	Registered
ARTHUR E BRAGG	UNIVERSITY OF CALIFORNIA, BERKELEY	Poster Presenter	Registered
ROBERT E CONTINETTI	UNIV. OF CALIFORNIA, SAN DIEGO	Vice Chair	Registered
MARCELLO CORENO	CNR-IMIP	Poster Presenter	Registered
PAUL CORKUM	NATIONAL RESEARCH COUNCIL	Speaker	Registered
MATTANJAH S DE VRIES	UNIVERSITY OF CALIFORNIA, SANTA BARBARA	Speaker	Registered
CAROLINE E DESSENT	UNIVERSITY OF YORK	Attendee	Registered
TODD DITMIRE	UNIVERSITY OF TEXAS, AUSTIN	Speaker	Registered
REINHARD DOERNER	UNIVERSITY FRANKFURT	Speaker	Registered
DANIELLE DOWEK	CNRS	Speaker	Registered
VLADIMIR L DRIBINSKI	UNIVERSITY OF SOUTHERN CALIFORNIA	Poster Presenter	Registered
JOHN H D ELAND	OXFORD UNIVERSITY	Chair	Registered
RAIMUND R FEIFEL	OXFORD UNIVERSITY	Poster Presenter	Registered
THOMAS A FIELD	QUEEN'S UNIVERSITY BELFAST	Poster Presenter	Registered
INGO FISCHER	UNIVERSITY OF WUERZBURG	Poster Presenter	Registered
GUSTAVO A GARCIA	CEA/SPAM	Poster Presenter	Registered
OLIVER GEßNER	NATIONAL RESEARCH COUNCIL CANADA	Poster Presenter	Registered
ANNA GIARDINI-GUIDONI	ROME UNIVERSITY LA SAPIENZA	Discussion Leader	Registered
CARL C HAYDEN	SANDIA NATIONAL LABORATORIES	Speaker	Registered
JOHN W HEPBURN	UNIVERSITY OF BRITISH COLUMBIA	Speaker	Registered
UWE HERGENHAHN	MAX-PLANCK-INSTITUTE FOR PLASMA PHYSICS	Poster Presenter	Registered
DAVID HOLLAND	CLRC	Poster Presenter	Registered
HARMUT HOTOP	KAISERSLAUTERN UNIVERSITY	Speaker	Registered
TOSHIO IBUKI	KYOTO UNIVERSITY OF EDUCATION	Poster Presenter	Registered
OTTMAR JAGUTZKI	UNI FRANKFURT/ROENTDEK	Attendee	Registered
JOSE JIMENEZ-MIER	INSTITUTO DE CIENCIAS NUCLEARES, UNAM	Poster Presenter	Registered
MARK JOHNSON	YALE UNIVERSITY	Speaker	Registered
FUMIHIRO KOIKE	KITASATO UNIVERSITY	Poster Presenter	Registered
EDWIN KUKK	OULU UNIVERSITY	Poster Presenter	Registered
PASCAL LABLANQUIE	LURE	Poster Presenter	Registered
FRANCK LEPINE	FOM / AMOLF	Attendee	Registered
ANDREAS AL LINDGREN	LUND UNIVERSITY	Poster Presenter	Registered
DENNIS W LINDLE	UNIVERSITY OF NEVADA, LAS VEGAS	Speaker	Registered

HANS-PETER LOOCK	QUEEN'S UNIVERSITY	Poster Presenter	Registered
ROBERT R LUCCHESE	TEXAS A&M UNIVERSITY	Speaker	Registered
RICHARD MABBS	UNIVERSITY OF ARIZONA	Poster Presenter	Registered
STEVEN T MANSON	GEORGIA STATE UNIVERSITY	Speaker	Registered
THOMAS MOELLER	HASYLAB/DESY	Speaker	Registered
PAUL MORIN	SOLEIL	Speaker	Registered
KLAUS MULLER-DETHLEFS	UNIVERSITY OF YORK	Speaker	Registered
MARGARET M MURNANE	JILA	Speaker	Registered
DAN NEUMARK	UNIVERSITY OF CALIFORNIA, BERKELEY	Speaker	Registered
HIROMICHI NIIKURA	NATIONAL RESEARCH COUNCIL	Poster Presenter	Registered
ANDREAS OSTERWALDER	UC BERKELEY	Poster Presenter	Registered
MASSIMILIANO PASQUINI	LENS AND DEP. CHEMISTRY - UNIVERSITA DI FIRENZE	Poster Presenter	Registered
FRANCIS J PENENT	CNRS	Poster Presenter	Registered
ANNA PILCHER-CLAYTON	OXFORD UNIVERSITY	Attendee	Registered
ERWIN D POLIAKOFF	LOUISIANA STATE UNIVERSITY	Discussion Leader	Registered
STEPHEN T PRATT	ARGONNE NATIONAL LABORATORY	Discussion Leader	Registered
SIMON R PROCTER	UNIVERSITY OF OXFORD	Attendee	Registered
IGOR PUGLIESI	THE UNIVERSITY OF YORK	Poster Presenter	Registered
KATHARINE L REID	UNIVERSITY OF NOTTINGHAM	Attendee	Registered
PATRICK RUPPER	PHYSICAL CHEMISTRY LABORATORY, ETH ZURICH	Poster Presenter	Registered
ANDREI SANOV	UNIVERSITY OF ARIZONA	Speaker	Registered
ZAMITH SEBASTIEN	AMOLF	Poster Presenter	Registered
MICHELE SIGGEL-KING	DARESBURY LABORATORY	Attendee	Registered
JOHN P SIMONS	OXFORD UNIVERSITY	Speaker	Registered
TIMOTHY P SOFTLEY	UNIVERSITY OF OXFORD	Speaker	Registered
TOSHINORI SUZUKI	RIKEN	Discussion Leader	Registered
SVANTE SVENSSON	UPPSALA UNIVERSITY	Discussion Leader	Registered
DARRAH THOMAS	OREGON STATE UNIVERSITY	Poster Presenter	Registered
XIN TONG	UNIVERSITY OF YORK	Poster Presenter	Registered
DAVE TOWNSEND	SUNY STONY BROOK	Poster Presenter	Registered
KIYOSHI UEDA	TOHOKU UNIVERSITY	Speaker	Registered
JOACHIM ULLRICH	MAX-PLANCK-INSTITUT FUER KERNPHYSIK	Poster Presenter	Registered
EDWARD VLIEGEN	PHYSICAL CHEMISTRY LABORATORY, ETH ZÜRICH	Discussion Leader	Registered
MARC VRAKKING	FOM INSTITUTE FO ATOMIC & MOLECULAR PHY	Speaker	Registered
JORG MATHIAS WEBER	UNIVERSITAET KARLSRUHE	Poster Presenter	Registered
PAUL T WHITESIDE	UNIVERSITY OF NOTTINGHAM	Poster Presenter	Registered
KAROLINE WIESNER	UNIVERSITY OF CALIFORNIA AT DAVIS	Poster Presenter	Registered
DUNCAN A WILD	MPI FUR BIOPYSIKALISCHE CHEMIE	Poster Presenter	Registered
ROSEMARY L WILSON	UNIVERSITY OF MELBOURNE	Poster Presenter	Registered
INGRID WYSONG	EUROPEAN OFFICE OF AEROSPACE RESEARCH & DEVELOPMEN	Attendee	Registered

Photoions, Photoionization & Photodetachment

September 21-26, 2003
Queen's College
Oxford, UK

Chair: [John H D Eland](#)

Vice Chair: [Robert E Continetti](#)

The conference is now open for [application](#) and registration through this Gordon Research Conferences website. Please register early!

Those who would like to present a poster at the meeting are asked to submit an abstract to the Vice-Chair, Bob Continetti, at rcontinetti@ucsd.edu.

We hope that some bursaries will be available to help students attend the meeting. For more information please contact the Chair (John Eland) at eland@physchem.ox.ac.uk.

SUNDAY

2:00 pm - 9:00 pm	Arrival and Check-in
6:00 pm	Dinner
7:30 pm - 9:30 pm	New light sources and their applications
7.30 pm - 7.45 pm	Discussion Leader: John H.D. Eland (Oxford)
7:45 pm - 8:30 pm	Paul B. Corkum (NRC Canada) "Attosecond science"
8:30 pm - 9:15 pm	Thomas Mueller (DESY) "Multiple ionization of clusters by intense soft X-rays from a free electron laser"

MONDAY

7:45 am - 8:30 am	Breakfast
9:00 am - 12:30 pm	High resolution in photoionization and electron attachment
9.00 am - 9.15 am	Discussion Leader: Stephen T. Pratt (ANL)
9:15 am - 10:00 am	John Hepburn (British Columbia) "Photoion pair production; spectroscopy and dynamics"
10:00 am - 10:45 am	Tim .P. Softley (Oxford) "Spectroscopy and control of molecules in high Rydberg states"
10:45 am	Coffee Break
11:00 am - 11:45 pm	Hartmut Hotop (Kaiserslautern) "Resonance and threshold phenomena in low energy electron attachment"
11:45 am - 12.30 pm	Oral poster presentations
12:45 pm	Conference Photo
12:45 pm	Lunch
1:30 pm - 4:00 pm	Free Time
4:00 pm - 6:00 pm	Poster Session 1
6:00 pm	Dinner
7:30 pm - 9:30 pm	Inner shell photoionization phenomena
7.30 pm - 7.45 pm	Discussion Leader: Svante Svensson (Uppsala)

7:45 pm - 8:30 pm	Paul Morin (Soleil, Paris) "Femtosecond inner shell dynamics probed by Auger electron - ion coincidences"
8:30 pm - 9:15 pm	Reinhard Doerner (Frankfurt) "Photoelectrons and Auger electrons from fixed-in-space molecules"
9.15 pm	Poster Session 1 (continuation)

TUESDAY

7:45 am - 8:30 am	Breakfast
9:00 am - 12:30 pm	Photoionisation of biomolecules
9.00 am - 9.15 am	Discussion Leader: Anna Giardini-Guidoni (Rome, La Sapienza)
9:15 am - 10:00 am	John P. Simons (Oxford) "Ion dip spectroscopy of biological molecules in the gas phase"
10:00 am - 10:45 am	Mattanah S. DeVries (Santa Barbara) "Shedding light on individual biomolecular building blocks and their clusters"
10:45 am	Coffee Break
11:00 am - 11.45 am	Klaus Mueller Dethlefs (York) "ZEKE spectroscopy of molecules and clusters of biological interest"
11.45 am - 12.30 pm	Oral poster presentations
12:30 pm	Lunch
1:30 pm - 6:00 pm	Free Time (Posters from Session 1 will be available)
6:00 pm	Dinner
7:30 pm - 9:30 pm	Strong laser fields: fusion and attoseconds
7.30pm - 7.45 pm	Discussion Leader: Joachim Ullrich (Freiburg)
7:45 pm - 8:30 pm	Margaret Murnane (JILA) "Ultrafast coherent EUV generation and its applications in surface science"
8:30 pm - 9:15 pm	Todd Ditmire (Texas) "Nuclear fusion from strong field ionization of clusters"
9:15 pm	Poster Session 1 (continuation)

WEDNESDAY

7:45 am - 8:30 am	Breakfast
9:00 am - 12:30 pm	Vector correlations in electron ejection
9.00 am - 9.15 am	Discussion Leader: Erwin Poliakoff (Louisiana State)
9:15 am - 10:00 am	Danielle Dowek (LCAM, Paris) "Vector correlations in dissociative photoionisation"
10:00 am - 10:45 am	Robert R. Lucchese (Texas A&M) "Effects of electron correlation and nuclear motion in molecular photoionisation"
10:45 am	Coffee Break
11:00 am - 11.45 pm	Marc Vrakking (FOM) "Slow photoelectron imaging"
11.45 am - 12.30 pm	Kiyoshi Ueda (Tohoku) "Electron-ion multiple coincidence momentum imaging"
12:30 pm	Lunch
1:30 pm - 4:00 pm	Free Time
4:00 pm - 6:00 pm	Poster Session 2
6:00 pm	Dinner
7:30 pm - 9:30 pm	Non-dipole effects in ionisation

7.30 pm - 7.45 pm	Discussion Leader: Uwe Becker (FHI Berlin)
7:45 pm - 8:30 pm	Steve Manson (Georgia State) "Small interaction with large effects on photoabsorption; non-dipole, spin-orbit and others"
8:30 pm - 9:15 pm	Dennis W. Lindle (Nevada) "Non-dipole effects in molecular photoemission"
9.15 pm	Poster Session 2 (continuation)

THURSDAY

7:45 am - 8:30 am	Breakfast
9:00 am - 12:30 pm	New techniques and experiments
9.00 am - 9.15 am	Discussion Leader: Toshinori Suzuki (IMS)
9:15 am - 10:00 am	Carl C. Hayden (Sandia) "Femtosecond time-resolved photoelectron-photoion coincidence imaging studies of intramolecular processes"
10:00 am - 10:45 am	Daniel Neumark (Berkeley) "Photodetachment and photoionization of clusters"
10:45 am	Coffee Break
11:00 am - 11:45 pm	Mark Johnson (Yale) "Using photodetachment to study interactions of slow electrons with water networks"
11.45 am - 12.30 pm	Ludger Woeste (F.U. Berlin) "NeNuPo: learning about molecules by teaching lasers to control them"
12:30 pm	Lunch
1:30 pm - 6:00 pm	Free Time. Posters from Session 2 will be available.
6:00 pm	Dinner
7:30 pm - 9:30 pm	Photodetachment in gas and solution
7.30 pm - 7.45 pm	Discussion Leader: Robert Continetti (San Diego)
7:45 pm - 8:30 pm	Andrei Sanov (Arizona) "Photoelectron imaging of molecular cluster anions"
8:30 pm - 9:15 pm	Steve Bradforth (S. California) "Electron photodetachment in solution"
9.15 pm	Business Meeting and EPSRC Poster PRize presentation The posters from session 2 will still be available after the business meeting.

FRIDAY

7:45 am - 8:30 am	Breakfast
9:00 am	Depart