

**2000 GORDON RESEARCH CONFERENCE
on MOLECULAR ELECTRONIC SPECTROSCOPY
FINAL PROGRESS REPORT**

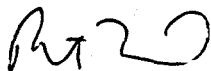
**DEPARTMENT OF ENERGY
GRANT NO. DE-FG02-00ER15054**

The Gordon Research Conference (GRC) on MOLECULAR ELECTRONIC SPECTROSCOPY was held at Colby-Sawyer from 7/30/00 thru 8/4/00. The Conference was well-attended with 89 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In designing the formal speakers program, emphasis was placed on current unpublished research and discussion of the future target areas in this field.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 As you know, in the interest of promoting the presentation of unpublished and frontier-breaking research, Gordon Research Conferences does not permit publication of meeting proceedings.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.

Sincerely,



ROBERT W FIELD

MIT

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MOLECULAR ELECTRONIC SPECTROSCOPY

Final Progress Report

For Period June 1, 2000-May 31, 2001

PI: Dr. Robert W. Field

**Gordon Research Conferences
PO Box 984
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June 7, 2001

Prepared for

**THE U.S. DEPARTMENT OF ENERGY
AWARD NO. DE-FG02-00ER15054**

Gordon Research Conferences

Molecular Electronic Spectroscopy and Dynamics

Colby Sawyer College
New London, New Hampshire, USA
7/30/00 - 8/4/00

Robert W. Field, *Chair*
Elliot R. Bernstein, *Co-Vice Chair*
James L. Skinner, *Co-Vice Chair*

Sunday Evening
July 30

Herzberg Session

Chair: Boris Stoicheff, *Department of Physics, University of Toronto, Canada*

- Speakers:
- Christian Jungen, *Laboratoire Aimé Cotton du CNRS, Université de Paris-Sud, France*
High Resolution in the Frequency and Time Domains: from Hyperfine Interactions to Wavepacket Motion in Molecular Rydberg States
 - Frederic Merkt, *Department of Chemistry, ETH, Zurich*
New High Resolution Spectroscopic Measurements on Some of Herzberg's Favorite Molecules

Monday Morning
July 31

From Atom-in-Molecule to Supercritical Fluids I

Chair: Giacinto Scoles, *Department of Chemistry, Princeton University*

- Speakers:
- Robert Lipson, *Department of Chemistry, University of Western Ontario, Canada*
Excited Rare Gas Dimers in Low n^* Rydberg States: A Different Take on the Concept of United Atoms
 - Wolfgang Ketterle, *Department of Physics, MIT*
Optical Properties of a Bose-Einstein Condensate and Phase-Coherent Matter Wave Amplification
 - Andrej Vilesov, *Department of Physical Chemistry, Ruhr-University-Bochum, Germany*
Spectroscopy of Molecules Dissolved in Liquid Helium Droplets

Monday Evening
July 31

From Atom-in-Molecule to Supercritical Fluids II

Chair: Majed Chergui, *Institute de Physique de la Matière Condensée, Université de Lausanne, Switzerland*

- Speakers:
- Takamasa Momose, *Department of Chemistry, Kyoto University, Japan*
High-Resolution Spectroscopy of Rovibrational and Electronic Transitions of Molecules Embedded in Para-hydrogen Crystals
 - Joan F. Brennecke, *Department of Chemical Engineering, University of Notre Dame*
Local Solvation and Its Effects on Spectroscopy and Reactivity in Supercritical Fluids
-

**Tuesday Morning
August 1**

Imaging and Control I

Chair: Richard Dixon, *School of Chemistry, University of Bristol, United Kingdom*

- Speakers:**
- Carl Hayden, *Sandia National Laboratory*
Femtosecond Time-Resolved Photoelectron/Photoion Coincidence Imaging
 - Christophe Blondel, *Laboratoire Aimé Cotton du CNRS, Université de Paris-Sud, France*
Photodetachment Microscopy, a 1 μ eV Accurate Electron Spectrometry Method?
 - Thomas Weinacht, *Department of Physics, University of Michigan*
Using Feedback to Control Quantum Dynamics in Rydberg Atoms and Molecular Liquids

**Tuesday Evening
August 1**

Imaging and Control II

Chair: Regina de Vivie-Riedle, *Max Planck Institut für Quantenoptik, Garching, Germany*

- Speakers:**
- Stephen Leone, *Quantum Physics Division, JILA, Boulder*
Ultrafast Phase Control in Wave Packet Dynamics
 - Jianshu Cao, *Department of Chemistry, MIT*
Quantum Coherence in Nonlinear Optical Processes

**Wednesday
Morning
August 2**

Quantum Dots

Chair: Shuming Nie, *Indiana University*

- Speakers:**
- Uri Banin, *Department of Physical Chemistry, The Hebrew University of Jerusalem, Israel*
Molecular (and Atomic) Electronic Spectroscopy of Semiconductor Clusters and Nanocrystals
 - Martin Moskovits, *Department of Chemistry, University of Toronto, Canada*
Enormous Optical Field Enhancements on Fractal Surfaces - The Prospect of Single Molecule Raman Spectroscopy and Other High Field Effects
 - Paul McEuen, *Department of Physics, University of California, Berkeley*
Electrons in Carbon Nanostructures

**Wednesday
Evening
August 2**

A Little of This and a Little of That

Chair: Robert Jones, *Department of Physics, University of Virginia*

- Speakers:**
- H. Floyd Davis, *Department of Chemistry and Chemical Biology, Cornell University*
Dynamics of Neutral Transition Metal Atom Reactions with Simple Hydrocarbons
 - Martin Gruebele, *Department of Chemistry, University of Illinois, Urbana-Champaign*
Using Wavelength- and Time-Resolved Fluorescence Spectroscopy to Study the Folding of Proteins and Synthetic Structure-Seekers

**Thursday Morning
August 3****Light Harvesting Antenna Systems**

Chair: Graham R. Fleming, *Department of Chemistry, University of California, Berkeley*

- Speakers:**
- Rienk Van Grondelle, *Faculteit der Exacte Wetenschappen Afdeling Biofysica en Fysica van Complexe Systemen, Vrije Universiteit, Amsterdam, The Netherlands*
The Spectroscopy of Bacterial Light-Harvesting Complexes
 - Klaus J. Schulten, *Department of Chemistry, University of Illinois, Urbana-Champaign*
Migration of Electronic Excitation in Photosynthetic Chlorophyll-Carotenoid Aggregates
 - Silvia L. Völker, *Molecular Physics, University of Leiden, The Netherlands*
Unraveling the photophysics of Green and Red Fluorescent Proteins

**Thursday Evening
August 3****Time vs. Frequency Domain**

Chair: James L. Skinner, *Department of Chemistry, University of Wisconsin, Madison*

- Speakers:**
- David M. Jonas, *Department of Chemistry & Biochemistry, University of Colorado, Boulder*
Frequency Domain Pictures of Femtosecond Spectroscopy
 - Albert Stolow, *Steacie Institute for Molecular Sciences, National Research Council of Canada*
Issues of Time, Phase & Intensity in Femtosecond Spectroscopy
 - Elliot Bernstein & James Skinner
Central Issues, Recurrent Themes, and Future Directions of Molecular Electronic Spectroscopy and Dynamics

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The Air Force Office of Scientific Research, The Department of Energy, and the National Science Foundation provided grants primarily for support of young scientists. Hewlett Packard Company, Lambda Physik, R.M. Jordan Company, Inc., and Spectra-Physics Lasers, Inc. contributed additional funds for travel and Conference Registration.

Funds for refreshments during the Poster Sessions were provided by Harcourt Brace (Academic press) and Coherent, Inc.



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