

Invited Speakers for Past **Symposia on Chemical Physics** at the University of Waterloo.

<i>Name</i>	<i>Affiliation</i>	<i>Title of Presentation</i>
2023		
P-N. Roy	U. Waterloo	Quantum Molecular Dynamics Simulations of Confined Molecules
P. Piecuch	Michigan State U.	Recent Progress in Externally Corrected Coupled-Cluster Methods: Following the Footsteps of a Legend
L.. D. Chen	U. Guelph	Scaling Relations for the Electrocatalytic Ammonia Oxidation Reaction
B. Clowers	Washington State U.	Manipulating Molecular Ion Trains: Selective Ion-Neutral Clustering, HDX, and Cryogenic IR Spectroscopy
D. Kuroda	Louisiana State U.	Unraveling the Complex Structure and Dynamics of Lithium Ions in Organic Solvents Using IR Spectroscopy
2022		
A. Aspuru-Guzik	U. Toronto	Inverted Singlet-Triplet Gap (INVEST) Emitters: A Potential Fifth Generation of Organic Light Emitting Materials
Y. Xu	U. Alberta	Molecular Spectroscopy of Chirality Recognition/Transfer/Amplification: Fundamental and Practical Advances
J-C. Tremblay	U. Lorraine	Ultrafast Charge Migration Driven by Light: Mechanistic Insights from Many Electron Dynamics Simulations
G. Cosa	McGill U.	Thiol Induced Photo-Switching/Stability of Cyanine Dyes Used in Single Molecule Fluorescence
O. Andreussi	Boise State U.	Multiscale Modeling of the Stability and Catalytic Activity of Materials in Electrochemical Environments
L. Konermann	U. Western Ontario	Proteins in Solution and in the Gas Phase: MD Simulations Uncover Electrospray Ionization Mechanisms
2021		
Cancelled due to COVID-19		
2020		
Cancelled due to COVID-19		

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2019		
D. Strickland	U. Waterloo	From nonlinear optics to high-intensity laser physics
J. Hutson	Durham U.	Controlling ultracold molecules with magnetic and laser fields
T. Zeng	Carleton U.	Our recent studies in vibronic coupling: simulation of optoelectronic materials, derivation of Jahn-Teller formalisms, and interpretation of photoelectron spectrum
A. Ross	U. Claude Bernard Lyon 1	Laser-induced fluorescence measurements to feed dParFit and dPotFit
P. Bunker	National Research Council Canada	The Planck constant and its units
T. McMahon	U. Waterloo	Novel binding modes in gas phase ion molecule complexes
2018		
T. Currington Jr.	Queen's U.	Solving the Schrödinger equation without the variational method: no integrals
P. Bernath	Old Dominion U.	Molecular Opacities and Other Applications of Bob LeRoy's Theoretical Spectroscopy
P. Zimmerman	U. Michigan	Breaking Up Scaling Limits with the Many-Body Expansion
F. Lagugné-Labarthe	U. Western Ontario	Infrared Plasmonics with Fractal Metastructures
A. McCoy	U. of Washington	Spectral Signatures of Large Amplitude Motions in Protonated Water Clusters and Other Charged Systems
J. Laskin	Purdue U.	Rational Design of Solid Interfaces Using Soft-landing of Mass-Selected Ions
2017		
P. Maitre	Université Paris-Sud	Differential mobility selection and selective infrared fragmentation of small molecular ions
S. Hirata	U. Illinois at Urbana Champaign	Many-body Green's function theory
E. Garand	U. Wisconsin-Madison	Spectroscopy and chemistry with cryogenic ion traps
D. Sigal	U. Toronto	From quantum dynamics to quantum thermodynamics
I. Paci	U. Victoria	Dielectric and optical materials with metal nanoparticle inclusions: A theoretical approach
B. Siwick	McGill U.	Ultrafast inelastic electron scattering: Mapping q-dependent electron-phonon coupling and nonequilibrium phonon dynamics in 2D materials
2016		
F. Neese	Max Planck	Coupled Cluster Theory for systems with hundreds of atoms
R. Ernstorfer	Fritz-Haber	Combined Mass Ultrafast Electronic and Structural Dynamics on the Nanoscale
D. Zgid	U. Michigan	Rigorous quantum embedding using Green's functions
P. Ayotte	U. Sherbrooke	Nuclear spin isomers of H ₂ O and their interconversion: implication for their separation, storage, and applications
Z. Bačić	New York U.	Coupled translation-rotation dynamics of H ₂ and H ₂ O inside C ₆₀ : Rigorous quantum treatment
P. Mayer	U. Ottawa	Reaction Dynamics of PAH ions: overview and challenges

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2015		
R.J.D. Miller	Max Planck	Mapping Atomic Motions with Ultrabright Electrons: The Chemists' Gedanken Experiment Enters the Lab Frame
R. Jockush	U. Toronto	Combined Mass Spectrometry and Fluorescence Studies to Separate Intrinsic Behavior from Environmental Effects: from Fundamental Investigations of Fluorescent Probes to FRET for Gas-phase Protein Conformation
V. Molinero	U. Utah	Crystallization of water: a molecular perspective
G. Doublerly	U. Georgia	Laser Spectroscopy of Reactive Intermediates in Superfluid Helium Droplets
A. Izmaylov	U. Toronto	Role of Topology in Chemical Dynamics Beyond Born-Oppenheimer Approximation
E. Johnson	Dalhousie U.	Properties of molecular crystals from density-functional theory
2014		
D. Ceperley	U. Illinois	Dense hydrogen: What we can calculate, Implications for density functionals, and Multi-scale approaches
D. Cory	U. Waterloo	Quantum Sensors and Computers
G. Lamoreux	Concordia U.	Molecular modeling of proton cotransport in proteins
A. Mullen	U. Maryland	Dynamics of Molecular Gyroscopes
A. Krylov	U.S.C.	A Fresh Look at Resonances: An Equation-of-Motion Coupled-Cluster Based Approach
L.-S. Wang	Brown. U.	Electrospray Photoelectron Spectroscopy: From Multiply Charged Anions to Ultracold Anions
2013		
M. Ashfold	U. Bristol	Molecular Photofragmentation Dynamics in the Gas and Liquid Phase: Parallels and Differences
N. Blinov	U. Alberta	Bridging the gap between Explicit and Implicit Solvation: Perspective of the Molecular Theory of Solvation
M. Ernzerhof	U. Montréal	Kekulé formulae, Hückel theory, and Dirac's Equation: Combining Various Concepts to better Understand Electron Transport in Conjugated systems
T. Fridgen	Memorial U.	Experimental and Computational Studies of Gas Phase Structures and Energetics of Non-Covalent Complexes of DNA Bases
K. Madison	U.B.C.	Production and Study of Ultra-Cold Molecules from Laser-Cooled Atoms: A New Regime for Ultracold Chemistry and Physics
W. Poirier	Texas Tech. U.	Ten Thousand Quantum States of Acetonitrile
2012		
D. Manolopoulos	U. Oxford	Ring Polymer Molecular Dynamics – A Review of 6 Years Work Including a Wide Variety of Applications
M. Dantus	Michigan State U.	Coherent Control Principles and Applications Based on Shaped Ultrafast Pulses
G. Hanna	U. Alberta	Multidimensional vibrational spectroscopy of mixed quantum-classical systems: From simple models to water
N. Moazzen-Ahmadi	U. Calgary	Weakly-Bound Molecular Complexes Formed from Three- and Four-Atom Linear molecules
P. Peterson	Cornell U.	Ultrafast Dynamics at Soft Interfaces
V. Staroverov	U. Western Ontario	Recent advances in the theory and application of model Kohn-Sham potentials

<i>Name</i>	<i>Affiliation</i>	<i>Title of Presentation</i>
2011		
R. McKellar	NRC, Canada	Spectroscopy of Molecular Clusters
J. Autschbach	SUNY Buffalo	Spectroscopy 'In Silico'
J. Klassen	U. Alberta	Structure and Stability of Protein-Ligand Complexes in the Gas Phase
V. Mandelshtam	U. California Irvine	Simulation of Quantum Liquids and Clusters by Thermal Gaussian Molecular Dynamics
A. Stolow	NRC Canada	CARS Microscopy Made Simple
J. Van Wijngaarden	U. Manitoba	High Resolution Spectroscopy from the Microwave Through the Infrared Region
2010		
T. Ziegler	U. Calgary	The Description of Excited States by Density Functional Theory
N. Mosey	Queen's U.	First-Principles Simulations of Tribological Processes
Y. Shi	U. Calgary	Catalytic Chemical Vapour Deposition Chemistry in the gas Phase and on Catalytic Surfaces
A. Suits	Wayne State U.	Roaming Radicals! Results from High-Resolution Imaging Studies
A. Vilesov	U. Southern California	Growing Clusters in He Droplets: From Nano- to Micro-Droplets
K. Walker	U. Toronto	Using Spectroscopy to Study Atmospheric Composition
2009		
M. Lester	U. Pennsylvania	Dynamical Outcomes of Quenching: Reflections on a Conical Intersection
J. Hutson	U. Durham	Ultracold Molecules and Ultracold Collisions
W. Jäger	U. Alberta	Doped Superfluid Clusters
R. Krems	U. British Columbia	Ultracold Chemistry
K. Lehman	U. Virginia	Cavity Ring-Down Spectroscopy
R.J. Le Roy	U. Waterloo	Adventures in 'Potentiology'
G. Scoles	Princeton U. & Internat. School Advanced Studies (Trieste)	Nanomedicine: Towards New Definitions, Diagnostics and Cure of Illness in Modern Medicine
2008		
J. Bowman	Emory U.	Reaction and Vibrational Dynamics on Full Dimensional <i>ab initio</i> -based Potential Energy Surfaces
P. Bernath	U. York	Molecular Astronomy
G. Chan	Cornell U.	Strongly Interacting Electrons in Chemistry
T. Leung	U. Waterloo	Spintronics: Emerging Nanotechnology or Just Applied Chemical Physics?
R. Signorell	U. British Columbia	Vibrational Excitons in Aerosol Spectroscopy
D. Tokaryk	U. New Brunswick	Rings and Things at the Ring: FTIR Spectroscopy of Moderately Large Molecules at the Canadian Light Source

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2007		
F. Merkt	ETH Zurich	Rydberg Stark Deceleration and Zeeman Deceleration of Atoms and Molecules
P. Ayers	McMaster U.	Chemical Reaction Mechanism Prediction and Elucidation with the Fast-Marching Method
A. Brown	U. Alberta	Laser Control of Polyatomic Molecules: The Optimal Control Theory Multi-Configuration Time-Dependent Hartree Approach
E. Grant	U. British Columbia	Spectroscopic Manifestations of High-Rydberg Dynamics (Intra- and Intermolecular)
J. Martin	U. Waterloo	Resonant Electric Dipole-Dipole Interactions Between Ultra-Cold Rydberg Atoms
A. Wodtke	U. California Santa Barbara	Do We Have a Theory for Reactions at Metal Interfaces? The Unsolved Problem of Electronic Non-Adiabaticity
2006		
R. Bartlett	University of Florida	Coupled-Cluster Theory for Large Molecules: The Natural Linear Scaled Coupled-Cluster Method
A. Dickinson	U. of Newcastle	Transport Properties of Gases: Beyond Linear Molecules
T. Momose	U. British Columbia	Spectroscopy and Dynamics in Solid Parahydrogen and in He Droplets
A. Ross	Université Lyon I	Cavity-Enhanced Laser-Induced Emission Spectroscopy
G. Scoles	Princeton U. & University of Trieste	HENDI Spectroscopy: the Genesis of an Idea and Some Recent Results
Y. Xu	U. Alberta	Exploring Chirality and Chiral Recognition Using Spectroscopic and Ab Initio Methods
2005		
S. Leone	California Berkeley	Ultrafast Molecular Dynamics: Rydberg Wave Packets, Coherent Control, and High Harmonic Probing
T. Baer	U. of North Carolina	PEPICO Studies of Energy Selected Sequential and Parallel Ionic Dissociation Reactions
J. Stanton	U. Texas at Austin	The Unusually Complicated NO ₃ Molecule
R. Laflamme	U. of Waterloo	Quantum Computer and NMR
P. Vaccaro	Yale University	Lifting the Veil of Solvation: The Chiral-Optical Response of isolated Molecules
P.-N. Roy	U. of Alberta	Molecular Dynamics in Doped Quantum Clusters: Rotation and Superfluid Response
2004		
W.H. Miller	California Berkeley	Some Recent Applications of the Semiclassical Initial Value Representation
J.A. Coxon	Dalhousie U.	Some Modern Applications of Numerical Methods in the Interpretation of Rotational Structure in Band Spectra of Diatomic Molecules
J. Donaldson	U. of Toronto	Atmospheric Reactions at the Air-Water Interface
H.-P. Loock	Queen's University	Fibre-Optic Detectors and Sensors
T. Steimle	Arizona State U.	Optical Stark and Zeeman Studies of Metal Containing Molecules
B. Winnewisser	Ohio State U.	NCNCS: An Ideal Example of Molecular 'Quantum Monodromy'

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2003		
M. Shapiro	U. British Columbia	Quantum Control of Chiral Conversion, Spontaneous Decay and Tunneling
W. Balfour	U. Victoria	The Challenging Playground of Transition Metal Diatomic Spectroscopy
M. Gerry	U. British Columbia	Microwave Spectroscopy of Noble Gas–Coinage Metal Halide Complexes and the Nature of the Noble Gas–Coinage Metal Bond
W.J. Meath	U. Western Ontario	Mechanism for Multiphoton Excitation of Molecules, and On the Enhancement of “Direct” Two- and Three-Photon Excitations
K. Szalewicz	U. Delaware	Theoretical Spectroscopy of Van der Waals Molecules
T. Zwier	Purdue University	Laser Probes of the Potential Energy Landscapes and Conformational Isomerization Dynamics of Flexible Biopolymers
2002		
J. Maier	U. Basel	Electronic Spectroscopy of Carbon Chains and Their Relevance to Astrophysics
N. Bigelow	U. Rochester	Photoassociation of Molecules in Laser-Cooled Atomic Gases: Precision Spectroscopy, Photoionization, Molecule Formation
F. De Lucia	Ohio State U.	Spectroscopy, Collisions and Energy in the Submillimeter
C. Linton	U. New Brunswick	Laser Spectroscopy of Lanthanide Molecules - Past, Present and Future
J. Lisy	U. Illinois at Urbana-Champaign	Competition Between Non-Covalent Interactions: Surprising Size-Selectivity
G. Patey	U. British Columbia	Forces Between Immersed Objects: A Discussion of Interactions on Different Length Scales
2001		
W.C. Stwalley	U. Connecticut	Making Molecules at MicroKelvin
J. Abbatt	U. Toronto	Interactions of Atmospheric Trace Gases with Ice: Adsorption and Reaction Studies
T. McElroy	Meteorological Service of Canada	The MAESTRO Instrument that will fly on SciSat I, the Atmospheric Chemistry Experiment (ACE)
G.H. Peslherbe	Concordia U.	Photochemistry in Diverse Environments
H. Rabitz	Princeton U.	Teaching Lasers to Control Molecules: The Molecule Knows Best
R. Steer	U. Saskatchewan	Explorations of the Photophysics of Higher Electronic Valence States of Large Molecules: From Spectroscopic Curiosity to Photonics Applications
2000		
G. Scoles	Princeton U.	He Atom Reflectivity Studies of Chemical Dynamics on Metal Surfaces
U. Buck	M.-P.-I. Strömungsforschung	Photodissociation and Caging in Different Cluster Environments
M. Klein	U. Pennsylvania	Computer Simulation Studies of Biophysical Systems: From Micelles to Model Membranes and Membrane Proteins
L. Mattera	U. Genova	Correlation Between Growth and Magnetic Behaviour at the Surface of Ultrathin Films
R.E. Miller	U. North Carolina	Exploring Potential Energy Landscapes: Cluster Growth in He Nanodroplets
P. Rowntree	U. Sherbrooke	Electron-Induced Processes In (and ON) Self-Assembled Organic Monolayers

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1999		
P. Corkum	S.I.M.S., NRC	Strong Fields Molecular Optics
K. Chance	Harvard U.	Fitting Atmospheric Spectra in the Infrared Through Ultraviolet: Exercises in Spectroscopy and Radiative Transfer
J. Farrar	U. Rochester	Electronic Spectroscopy of Mass-Selected Clusters: Probes of Ion Solvation
W. Jäger	U. Alberta	Spectra of van der Waals Complexes: Fingerprints of Intermolecular Interactions
D. Pratt	U. Pittsburgh	Static and Dynamic Properties of Molecular Assemblies in the Gas Phase
J. Tennyson	U. London	Assigning the Spectrum of Water on the Sun and Elsewhere
1998		
J. Jortner	U. Tev Aviv	On Dynamics. From Isolated Molecules to Biomolecules
A. Adam	U. New Brunswick	High Resolution Laser Spectroscopy of Diatomic Molecules Containing Cobalt
F. Davis	Cornell U.	Transition Metal Chemistry in a Crossed Molecular Beam
M. Johnson	Yale U.	Making and Breaking Water Networks Around Halide Ions: Ions vs. Interwater Hydrogen Bonding
R.J.D. Miller	U. Toronto	Femtosecond Surface reaction Dynamics: Mapping the "Electron Trajectory"
N. Westwood	U. Guelph	Ground, Excited and Ionic States of Unstable Molecules: Experiment and Theory
1997		
T. Oka	U. Chicago	Detection of Interstellar H ₃ ⁺ Molecules in Astronomy
Y. Endo	U. Tokyo	Laser-Induced Fluorescence Spectroscopy of Carbon Chain Free Radicals
M. Okumura	Cal. Tech.	Solvation and State-Mixing in Clusters
R. Saykally	U.C. Berkeley	Infrared Cavity Ring-Down Laser Absorption Spectroscopy
T. Sears	Brookhaven	Transient Frequency Modulation Spectroscopy of Simple Carbenes
J.K.G. Watson	S.I.M.S., NRC	The Diffuse Interstellar Band Problem
1996		
A.D. Buckingham	Cambridge U.	Molecules in Optical, Electric and Magnetic Fields
M. Alexander	U. Maryland	Weakly Bound Complexes of Atomic Boron with Argon and Hydrogen
R. Curl	Rice U.	Infrared Laser Spectroscopy, and Comments on the Discovery of C ₆₀
M.A. Duncan	U. Georgia	Electrostatic Bonding in Gas Phase Metal Atom Complexes
A. Stolow	S.I.M.S., NRC	Time Resolved Photoelectron/Photoion Spectroscopy: Towards Wavepacket Technology
D. Wardlaw	Queen's U.	Molecular Surface Hopping in Intense Laser Fields
1995		
W. Klemperer	Harvard U.	Spectroscopy, Structure and Dynamics of Molecular Complexes
T. Carrington	U. Montréal	A Time Dependent Multi-Surface Calculation of the Orientation of Photofragments: The Photodissociation of ICN
T.A. Miller	Ohio State U.	Laser Spectroscopy of Cold Methoxy Radicals and Its Derivatives: Molecules that Sometimes Fluoresce and Sometimes Don't
M. Moskovits	U. Toronto	Thinking Small – Megascience with Nanostructures
B. Simard	S.I.M.S., NRC	Experimental and Theoretical Studies of Cu-group 13 and Al-group 14 Diatomics
W. Weisshaar	U. Wisconsin	Understanding Methyl Rotor Barriers

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1994		
G. Scoles	Princeton U.	Clusters Within Clusters: Matrix Isolation Spectroscopy in Condensed Helium Beams
M.S. Child	Oxford U.	Inversion of Spectroscopic Data
T.E. Gough	U. Victoria	Infrared Spectroscopy of Molecular Microcrystallites
J.M. Hutson	U. Durham	Additive and Non-Additive Intermolecular Forces from the Spectroscopy of Van der Waals Complexes
A.R.W. McKellar	H.I.A., NRC	Long-Path Infrared Spectra of Weakly-Bound Complexes
R.E. Miller	U. North Carolina	Photofragmentation of Oriented Molecules: New Insights into Photodissociation Dynamics from Pendular States
1993		
A. Zewail	Cal. Tech.	Recent Advances in Femtochemistry
P. Hackett	NRC	Studies of the Structure and Reactivity of Small Clusters
R. Kapral	U. Toronto	The Structure and Dynamics of Binary Clusters
E.C. Lim	U. Akron	Excited-State Dynamics and Photochemistry of Van der Waals Dimers and Clusters of Aromatic Molecules
A. Myers	U. Rochester	Dissecting the Ensemble Average: Spectroscopy and Dynamics of Individual Molecules
P. Schultz	U. Western Ontario	Probing Defects in Semiconductors with Slow Positrons
1992		
W.C. Lineberger	U. Colorado	Time-Resolved Cage Recombination Dynamics in Large Molecular Cluster Ions
P.R. Bunker	H.I.A., NRC	The Infrared Spectrum, Torsional Barrier and Vibrational Motions in Dimethylacetylene
J.B. McConkey	U. Windsor	Use of Laser-Induced Fluorescence Techniques to Probe the Breakup of Simple Molecules Under Electron Impact
D. Perry	U. Akron	Infrared Molecular Eigenstate Spectroscopy: A Probe for the Rate and Mechanism of Intramolecular Relaxation
L. Sanche	U. de Sherbrooke	Surface Reactions and Desorption Induced by Electron Attachment
A.J. Thakkar	U. New Brunswick	Van der Waals Coefficients, Polarizabilities and Hyperpolarizabilities: Current Computational Possibilities
1991		
R.Z. Zare	Stanford U.	State-Selected and State-Detected Reaction Dynamics
T. Amano	H.I.A., NRC	The Dissociative Recombination Rate of H_3^+
P. Houston	Cornell U.	The HCO Potential Energy Surface: Probes Using Molecular Scattering and Photodissociation
W.J. Meath	U. Western Ontario	Effects of Permanent Dipoles on the Resonance Profiles and Dynamics Associated with Single- and Multi-Photon Laser-Molecule Interactions
T. Rizzo	U. Rochester	Multiple Laser Probes of Intramolecular Dynamics
D. Roy	Université Laval	The Surface Chemistry of Silicon Investigated by Electron Spectroscopy: Some New Results
1990		
D.G. Truhlar	U. Minnesota	Calculation of Quantum Effects in Chemical Reaction Dynamics
D.J. Donaldson	U. Toronto	Predissociation Dynamics of CS_2
K.C. Janda	U. Pittsburgh	Pump-Probe Studies of the Structure and Dynamics of Van der Waals Molecules
J. Barker	U. Michigan	Collisional Deactivation of Highly Excited Polyatomic Molecules
B. Henry	U. Guelph	Sources of Intensity for Local Mode Overtones
D. Salahub	U. Montréal	Density Functional Theory and the Quantum Chemistry of Transition Metal Systems

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1989		
J.P. Toennies	MPI, Göttingen	Hot Molecules and Cold Clusters
P. Corkum	NRC	Femtosecond Lasers for Chemical Physics
A.P. Hitchcock	McMaster U.	Inner-Shell Excitation Spectroscopy of Molecules
S. Mukamel	U. Rochester	Solvation Dynamics in Electron Transfer and Non-Linear Optical Susceptibilities: A Unified Description
R. Lipson	U. Western Ontario	VUV Laser Spectroscopy of Reactive States: Valence to Ion-Pair Transitions of Halogens
V.H. Smith	Queen's U.	Adventures in the 3-Body Problem: Exotic Molecules
1988		
R.S. Berry	U. Chicago	How Good is Neil Bohr's Model of the Atom?
D. Rosner	U. Western Ontario	Testing Quantum Electrodynamics with Lasers and Simple Atoms
R.F.W. Bader	McMaster U.	A Quantum Theory of Molecular Structure
M.J. Dignam	U. Toronto	Spectroscopy of Ordered Molecular Assemblies
W. Siebrand	NRC	Tunneling of Hydrogen and Heavier Atoms
S. Filseth	York University	Energy Disposal in CN Produced by Photodissociation and Reactions
1987		
D.R. Herschbach	Harvard U.	Electronic Structure in Strange Dimensions
P. Norton	U. Western Ontario	Phase Transitions and Surface Reactivity
R.J.D. Miller	U. Rochester	Picosecond Dynamics of Surface Mediated Electron Transfer Processes at Single Crystal Semiconductor Interfaces
B. Schlegel	Wayne State U.	Spin Pojection and Moller-Plessit Perturbation Theory
J. Reid	McMaster U.	Optically Pumped NH ₃ Laser: A New Approach to Stable Lasers
P. Brumer	U. Toronto	Chaotic Intramolecular Energy Transfer
1986		
Y.T. Lee	U.C.-Berkeley	Dynamics and Spectroscopy by Lasers and Molecular Beams
A. Bandrauk	U. Sherbrooke	Non-Adiabatic Effects in Multiphoton Transitions
T.H. Ellis	U. Montréal	Direct Measurements of Surface Kinetics by Time Resolved EELS
W.L. Hase	Wayne State U.	Potential Energy Surface Properties and Dynamics of H+CH ₃ Recombination and IVR in Benzene
G. Scoles	U. Waterloo	Atomic Beam Scattering Studies of Intermolecular Forces at the Gas-Solid Interface
S.C. Wallace	U. Toronto	Excited State Dynamics of Van der Waals Clusters
1985		
R.B. Gerber	Hebrew U.	Molecular Dissociation in Impacts on Crystal Surfaces
J.C. Polanyi	U. Toronto	Photodissociation and Photodesorption of Adsorbed Species
T.F. George	SUNY-Buffalo	Molecular Dynamics and Spectroscopy at Gas-Solid Interfaces
J. Hepburn	U. Waterloo	State-to-State Photofragmentation of Small Molecules and Molecular Clusters
C.M. Sadowski	York University	Energy Disposal in the Photodissociation of Triatomic Cyanides
M. Moskovitz	U. Toronto	Photochemistry at Metal Surfaces