

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

Year	Name	Affiliation	Title of Presentation
2025	T. Momose	U. British Columbia	<i>Exploring Molecular Clusters with Helium Droplet Spectroscopy: From Molecular Superfluidity to Biomolecular Interactions</i>
	F. Remacle	U. Liège	<i>Tuning Electron-Nuclei Entanglement with Attopulses for Controlling Molecular Dynamics</i>
	K. Lehmann	U. Virginia	<i>Giacinto and Me: Four Decades of Collaboration and Friendship</i>
	M. Van Stipdonk	Duquesne U.	<i>Going where few dare to: Combining Ion Trapping Mass Spectrometry and Computational Chemistry to Investigate the Intrinsic Chemistry and Structure of Uranium Species</i>
	R. MacDonell	Dalhousie U.	<i>Ab Initio or Ab Initio'n't? Unraveling Approximations in Excited-State Chemistry and Nonadiabatic Dynamics</i>
2024	V. Batista	Yale U.	<i>Simulating Chemistry on Bosonic Quantum Devices</i>
	V. H. Wysocki	Giorgia Tech.	<i>Electrons and/or a Surface: Characterization of Capsids, Glycoproteins, and Nucleoproteins</i>
	F. Heidar-Zadeh	Queen's U.	<i>Dipole Constrained Additive Variational Hirshfeld Partitioning Method</i>
	M. Wilson	U. Toronto	<i>Advancing Solid-State Triplet-Fusion Upconversion</i>
	B. Rubenstein	Brown U.	<i>Modeling Biology on a Quantum Computer</i>
2023	P.-N. Roy	U. Waterloo	<i>Quantum Molecular Dynamics Simulations of Confined Molecules</i>
	P. Piecuch	Michigan State U.	<i>Recent Progress in Externally Corrected Coupled-Cluster Methods: Following the Footsteps of a Legend</i>
	L. D. Chen	U. Guelph	<i>Scaling Relations for the Electrocatalytic Ammonia Oxidation Reaction</i>
	B. Clowers	Washington State U.	<i>Manipulating Molecular Ion Trains: Selective Ion-Neutral Clustering, HDX, and Cryogenic IR Spectroscopy</i>
	D. Kuroda	Louisiana State U.	<i>Unraveling the Complex Structure and Dynamics of Lithium Ions in Organic Solvents Using IR Spectroscopy</i>
2022	A. Aspuru-Guzik	U. Toronto	<i>Inverted Singlet-Triplet Gap (INVEST) Emitters: A Potential Fifth Generation of Organic Light Emitting Materials</i>
	Y. Xu	U. Alberta	<i>Molecular Spectroscopy of Chirality Recognition/Transfer/Amplification: Fundamental and Practical Advances</i>
	J.-C. Tremblay	U. Lorraine	<i>Ultrafast Charge Migration Driven by Light: Mechanistic Insights from Many Electron Dynamics Simulations</i>
	G. Cosa	McGill U.	<i>Thiol Induced Photo-Switching/Stability of Cyanine Dyes Used in Single Molecule Fluorescence</i>
	O. Andreussi	Boise State U.	<i>Multiscale Modeling of the Stability and Catalytic Activity of Materials in Electrochemical Environments</i>
	L. Konermann	U. Western Ontario	<i>Proteins in Solution and in the Gas Phase: MD Simulations Uncover Electrospray Ionization Mechanisms</i>
2021	Cancelled due to COVID-19		
2020	Cancelled due to COVID-19		
2019	D. Strickland	U. Waterloo	<i>From nonlinear optics to high-intensity laser physics</i>
	J. Hutson	Durham U.	<i>Controlling ultracold molecules with magnetic and laser fields</i>
	T. Zeng	Carleton U.	<i>Our recent studies in vibronic coupling: simulation of optoelectronic materials, derivation of Jahn-Teller formalisms, and interpretation of photoelectron spectrum</i>
	A. Ross	U. Claude Bernard Lyon 1	<i>Laser-induced fluorescence measurements to feed dParFit and dPotFit</i>
	P. Bunker	NRC Canada	<i>The Planck constant and its units</i>
	T. McMahon	U. Waterloo	<i>Novel binding modes in gas phase ion molecule complexes</i>
2018	T. Currington Jr.	Queen's U.	<i>Solving the Schrödinger equation without the variational method: no integrals</i>
	P. Bernath	Old Dominion U.	<i>Molecular Opacities and Other Applications of Bob LeRoy's Theoretical Spectroscopy</i>

	P. Zimmerman	U. Michigan	<i>Breaking Up Scaling Limits with the Many-Body Expansion</i>
	F. Lagugné-Labarthe	U. Western Ontario	<i>Infrared Plasmonics with Fractal Metastructures</i>
	A. McCoy	U. of Washington	<i>Spectral Signatures of Large Amplitude Motions in Protonated Water Clusters and Other Charged Systems</i>
	J. Laskin	Purdue U.	<i>Rational Design of Solid Interfaces Using Soft-landing of Mass-Selected Ions</i>
2017	P. Maitre	Université Paris-Sud	<i>Differential mobility selection and selective infrared fragmentation of small molecular ions</i>
	S. Hirata	U. Illinois at Urbana Champaign	<i>Many-body Green's function theory</i>
	E. Garand	U. Wisconsin-Madison	<i>Spectroscopy and chemistry with cryogenic ion traps</i>
	D. Sigal	U. Toronto	<i>From quantum dynamics to quantum thermodynamics</i>
	I. Paci	U. Victoria	<i>Dielectric and optical materials with metal nanoparticle inclusions: A theoretical approach</i>
	B. Siwick	McGill U.	<i>Ultrafast inelastic electron scattering: Mapping q-dependent electron-phonon coupling and nonequilibrium phonon dynamics in 2D materials</i>
2016	F. Neese	Max Planck	<i>Coupled Cluster Theory for systems with hundreds of atoms</i>
	R. Ernstorfer	Fritz-Haber	<i>Combined Mass Ultrafast Electronic and Structural Dynamics on the Nanoscale</i>
	D. Zgid	U. Michigan	<i>Rigorous quantum embedding using Green's functions</i>
	P. Ayotte	U. Sherbrooke	<i>Nuclear spin isomers of H₂O and their interconversion: implication for their separation, storage, and applications</i>
	Z. Bačić	New York U.	<i>Coupled translation-rotation dynamics of H₂ and H₂O inside C₆₀: Rigorous quantum treatment</i>
	P. Mayer	U. Ottawa	<i>Reaction Dynamics of PAH ions: overview and challenges</i>
2015	R.J.D. Miller	Max Planck	<i>Mapping Atomic Motions with Ultrabright Electrons: The Chemists' Gedanken Experiment Enters the Lab Frame</i>
	R. Jockush	U. Toronto	<i>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</i>
	V. Molinero	U. Utah	<i>Crystallization of water: a molecular perspective</i>
	G. Douberly	U. Georgia	<i>Laser Spectroscopy of Reactive Intermediates in Superfluid Helium Droplets</i>
	A. Izmaylov	U. Toronto	<i>Role of Topology in Chemical Dynamics Beyond Born-Oppenheimer Approximation</i>
	E. Johnson	Dalhousie U.	<i>Properties of molecular crystals from density-functional theory</i>
2014	D. Ceperley	U. Illinois	<i>Dense hydrogen: What we can calculate, Implications for density functionals, and Multi-scale approaches</i>
	D. Cory	U. Waterloo	<i>Quantum Sensors and Computers</i>
	G. Lamoreux	Concordia U.	<i>Molecular modeling of proton cotransport in proteins</i>
	A. Mullen	U. Maryland	<i>Dynamics of Molecular Gyroscopes</i>
	A. Krylov	U.S.C.	<i>A Fresh Look at Resonances: An Equation-of-Motion Coupled-Cluster Based Approach</i>
	L.-S. Wang	Brown. U.	<i>Electrospray Photoelectron Spectroscopy: From Multiply Charged Anions to Ultracold Anions</i>
2013	M. Ashfold	U. Bristol	<i>Molecular Photofragmentation Dynamics in the Gas and Liquid Phase: Parallels and Differences</i>
	N. Blinov	U. Alberta	<i>Bridging the gap between Explicit and Implicit Solvation: Perspective of the Molecular Theory of Solvation</i>
	M. Ernzerhof	U. Montréal	<i>Kekulé formulae, Hückel theory, and Dirac's Equation: Combining Various Concepts to better Understand Electron Transport in Conjugated systems</i>
	T. Fridgen	Memorial U.	<i>Experimental and Computational Studies of Gas Phase Structures and Energetics of Non-Covalent Complexes of DNA Bases</i>

	K. Madison	U. British Columbia	<i>Production and Study of Ultra-Cold Molecules from Laser-Cooled Atoms: A New Regime for Ultracold Chemistry and Physics</i>
	W. Poirier	Texas Tech. U.	<i>Ten Thousand Quantum States of Acetonitrile</i>
2012	D. Manolopoulos	U. Oxford	<i>Ring Polymer Molecular Dynamics -- A Review of 6 Years Work Including a Wide Variety of Applications</i>
	M. Dantus	Michigan State U.	<i>Coherent Control Principles and Applications Based on Shaped Ultrafast Pulses</i>
	G. Hanna	U. Alberta	<i>Multidimensional vibrational spectroscopy of mixed quantum-classical systems: From simple models to water</i>
	N. Moazzen-Ahmadi	U. Calgary	<i>Weakly-Bound Molecular Complexes Formed from Three- and Four-Atom Linear molecules</i>
	P. Peterson	Cornell U.	<i>Ultrafast Dynamics at Soft Interfaces</i>
	V. Staroverov	U. Western Ontario	<i>Recent advances in the theory and application of model Kohn-Sham potentials</i>
2011	R. McKellar	NRC, Canada	<i>Spectroscopy of Molecular Clusters</i>
	J. Autschbach	SUNY Buffalo	<i>Spectroscopy 'In Silico'</i>
	J. Klassen	U. Alberta	<i>Structure and Stability of Protein-Ligand Complexes in the Gas Phase</i>
	V. Mandelshtam	U. California Irvine	<i>Simulation of Quantum Liquids and Clusters by Thermal Gaussian Molecular Dynamics</i>
	A. Stolow	NRC Canada	<i>CARS Microscopy Made Simple</i>
	J. Van Wijngaarden	U. Manitoba	<i>High Resolution Spectroscopy from the Microwave Through the Infrared Region</i>
2010	T. Ziegler	U. Calgary	<i>The Description of Excited States by Density Functional Theory</i>
	N. Mosey	Queen's U.	<i>First-Principles Simulations of Tribological Processes</i>
	Y. Shi	U. Calgary	<i>Catalytic Chemical Vapour Deposition Chemistry in the gas Phase and on Catalytic Surfaces</i>
	A. Suits	Wayne State U.	<i>Roaming Radicals! Results from High-Resolution Imaging Studies</i>
	A. Vilesov	U. Southern California	<i>Growing Clusters in He Droplets: From Nano- to Micro-Droplets</i>
	K. Walker	U. Toronto	<i>Using Spectroscopy to Study Atmospheric Composition</i>
2009	M. Lester	U. Pennsylvania	<i>Dynamical Outcomes of Quenching: Reflections on a Conical Intersection</i>
	J. Hutson	U. Durham	<i>Ultracold Molecules and Ultracold Collisions</i>
	W. Jäger	U. Alberta	<i>Doped Superfluid Clusters</i>
	R. Krems	U. British Columbia	<i>Ultracold Chemistry</i>
	K. Lehman	U. Virginia	<i>Cavity Ring-Down Spectroscopy</i>
	R.J. Le Roy	U. Waterloo	<i>Adventures in 'Potentialology'</i>
2008	G. Scoles	Princeton U.	<i>Internat. School Advanced Studies (Trieste)</i>
	J. Bowman	Emory U.	<i>Reaction and Vibrational Dynamics on Full Dimensional ab initio-based Potential Energy Surfaces</i>
	P. Bernath	U. York	<i>Molecular Astronomy</i>
	G. Chan	Cornell U.	<i>Strongly Interacting Electrons in Chemistry</i>
	T. Leung	U. Waterloo	<i>Spintronics: Emerging Nanotechnology or Just Applied Chemical Physics?</i>
	R. Signorell	U. British Columbia	<i>Vibrational Excitons in Aerosol Spectroscopy</i>
2007	D. Tokaryk	U. New Brunswick	<i>Rings and Things at the Ring: FTIR Spectroscopy of Moderately Large Molecules at the Canadian Light Source</i>
	F. Merkt	ETH Zurich	<i>Rydberg Stark Deceleration and Zeeman Deceleration of Atoms and Molecules</i>
	P. Ayers	McMaster U.	<i>Chemical Reaction Mechanism Prediction and Elucidation with the Fast-Marching Method</i>
	A. Brown	U. Alberta	<i>Laser Control of Polyatomic Molecules: The Optimal Control Theory Multi-Configuration Time-Dependent Hartree Approach</i>
	E. Grant	U. British Columbia	<i>Spectroscopic Manifestations of High-Rydberg Dynamics (Intra- and Intermolecular)</i>
	J. Martin	U. Waterloo	<i>Resonant Electric Dipole-Dipole Interactions Between Ultra-Cold Rydberg Atoms</i>

	A. Wodtke	U. California Santa Barbara	<i>Do We Have a Theory for Reactions at Metal Interfaces? The Unsolved Problem of Electronic Non-Adiabaticity</i>
2006	R. Bartlett	University of Florida	<i>Coupled-Cluster Theory for Large Molecules: The Natural Linear Scaled Coupled-Cluster Method</i>
	A. Dickinson	U. of Newcastle	<i>Transport Properties of Gases: Beyond Linear Molecules</i>
	T. Momose	U. British Columbia	<i>Spectroscopy and Dynamics in Solid Parahydrogen and in He Droplets</i>
	A. Ross	Université Lyon I	<i>Cavity-Enhanced Laser-Induced Emission Spectroscopy</i>
	G. Scoles	Princeton U.	<i>University of Trieste</i>
	Y. Xu	U. Alberta	<i>Exploring Chirality and Chiral Recognition Using Spectroscopic and Ab Initio Methods</i>
2005	S. Leone	California Berkeley	<i>Ultrafast Molecular Dynamics: Rydberg Wave Packets, Coherent Control, and High Harmonic Probing</i>
	T. Baer	U. of North Carolina	<i>PEPICO Studies of Energy Selected Sequential and Parallel Ionic Dissociation Reactions</i>
	J. Stanton	U. Texas at Austin	<i>The Unusually Complicated NO₃ Molecule</i>
	R. Laflamme	U. of Waterloo	<i>Quantum Computer and NMR</i>
	P. Vaccaro	Yale University	<i>Lifting the Veil of Solvation: The Chiral-Optical Response of isolated Molecules</i>
	P.-N. Roy	U. of Alberta	<i>Molecular Dynamics in Doped Quantum Clusters: Rotation and Superfluid Response</i>
2004	W.H. Miller	California Berkeley	<i>Some Recent Applications of the Semiclassical Initial Value Representation</i>
	J.A. Coxon	Dalhousie U.	<i>Some Modern Applications of Numerical Methods in the Interpretation of Rotational Structure in Band Spectra of Diatomic Molecules</i>
	J. Donaldson	U. of Toronto	<i>Atmospheric Reactions at the Air-Water Interface</i>
	H.-P. Looch	Queen's University	<i>Fibre-Optic Detectors and Sensors</i>
	T. Steimle	Arizona State U.	<i>Optical Stark and Zeeman Studies of Metal Containing Molecules</i>
	B. Winnewisser	Ohio State U.	<i>NCNCS: An Ideal Example of Molecular 'Quantum Monodromy'</i>
2003	M. Shapiro	U. British Columbia	<i>Quantum Control of Chiral Conversion, Spontaneous Decay and Tunneling</i>
	W. Balfour	U. Victoria	<i>The Challenging Playground of Transition Metal Diatomic Spectroscopy</i>
	M. Gerry	U. British Columbia	<i>Microwave Spectroscopy of Noble Gas--Coinage Metal Halide Complexes and the Nature of the Noble Gas--Coinage Metal Bond</i>
	W.J. Meath	U. Western Ontario	<i>Mechanism for Multiphoton Excitation of Molecules, and On the Enhancement of "Direct" Two- and Three-Photon Excitations</i>
	K. Szalewicz	U. Delaware	<i>Theoretical Spectroscopy of Van der Waals Molecules</i>
	T. Zwiier	Purdue University	<i>Laser Probes of the Potential Energy Landscapes and Conformational Isomerization Dynamics of Flexible Biopolymers</i>
2002	J. Maier	U. Basel	<i>Electronic Spectroscopy of Carbon Chains and Their Relevance to Astrophysics</i>
	N. Bigelow	U. Rochester	<i>Photoassociation of Molecules in Laser-Cooled Atomic Gases: Precision Spectroscopy, Photoionization, Molecule Formation</i>
	F. De Lucia	Ohio State U.	<i>Spectroscopy, Collisions and Energy in the Submillimeter</i>
	C. Linton	U. New Brunswick	<i>Laser Spectroscopy of Lanthanide Molecules - Past, Present and Future</i>
	J. Lisy	U. Illinois at Urbana-Champaign	<i>Competition Between Non-Covalent Interactions: Surprising Size-Selectivity</i>
	G. Patey	U. British Columbia	<i>Forces Between Immersed Objects: A Discussion of Interactions on Different Length Scales</i>
2001	W.C. Stwalley	U. Connecticut	<i>Making Molecules at MicroKelvin</i>
	J. Abbatt	U. Toronto	<i>Interactions of Atmospheric Trace Gases with Ice: Adsorption and Reaction Studies</i>
	T. McElroy	Meteorological Service of Canada	<i>The MAESTRO Instrument that will fly on SciSat I, the Atmospheric Chemistry Experiment (ACE)</i>
	G.H. Peslherbe	Concordia U.	<i>Photochemistry in Diverse Environments</i>
	H. Rabitz	Princeton U.	<i>Teaching Lasers to Control Molecules: The Molecule Knows Best</i>
	R. Steer	U. Saskatchewan	<i>Explorations of the Photophysics of Higher Electronic Valence States of Large Molecules: From Spectroscopic Curiosity to Photonics Applications</i>

2000	G. Scoles	Princeton U.	<i>He Atom Reflectivity Studies of Chemical Dynamics on Metal Surfaces</i>
	U. Buck	M.-P.-I. Strömungsforschung	<i>Photodissociation and Caging in Different Cluster Environments</i>
	M. Klein	U. Pennsylvania	<i>Computer Simulation Studies of Biophysical Systems: From Micelles to Model Membranes and Membrane Proteins</i>
	L. Mattera	U. Genova	<i>Correlation Between Growth and Magnetic Behaviour at the Surface of Ultrathin Films</i>
	R.E. Miller	U. North Carolina	<i>Exploring Potential Energy Landscapes: Cluster Growth in He Nanodroplets</i>
	P. Rowntree	U. Sherbrooke	<i>Electron-Induced Processes In (and ON) Self-Assembled Organic Monolayers</i>
1999	P. Corkum	S.I.M.S., NRC	<i>Strong Fields Molecular Optics</i>
	K. Chance	Harvard U.	<i>Fitting Atmospheric Spectra in the Infrared Through Ultraviolet: Exercises in Spectroscopy and Radiative Transfer</i>
	J. Farrar	U. Rochester	<i>Electronic Spectroscopy of Mass-Selected Clusters: Probes of Ion Solvation</i>
	W. J"ager	U. Alberta	<i>Spectra of van der Waals Complexes: Fingerprints of Intermolecular Interactions</i>
	D. Pratt	U. Pittsburgh	<i>Static and Dynamic Properties of Molecular Assemblies in the Gas Phase</i>
	J. Tennyson	U. London	<i>Assigning the Spectrum of Water on the Sun and Elsewhere</i>
1998	J. Jortner	U. Tev Aviv	<i>On Dynamics. From Isolated Molecules to Biomolecules</i>
	A. Adam	U. New Brunswick	<i>High Resolution Laser Spectroscopy of Diatomic Molecules Containing Cobalt</i>
	F. Davis	Cornell U.	<i>Transition Metal Chemistry in a Crossed Molecular Beam</i>
	M. Johnson	Yale U.	<i>Making and Breaking Water Networks Around Halide Ions: Ions vs. Interwater Hydrogen Bonding</i>
	R.J.D. Miller	U. Toronto	<i>Femtosecond Surface reaction Dynamics: Mapping the ``Electron Trajectory''</i>
	N. Westwood	U. Guelph	<i>Ground, Excited and Ionic States of Unstable Molecules: Experiment and Theory</i>
1997	T. Oka	U. Chicago	<i>Detection of Interstellar H\$\$_3^+\$\$ Molecules in Astronomy</i>
	Y. Endo	U. Tokyo	<i>Laser-Induced Fluorescence Spectroscopy of Carbon Chain Free Radicals</i>
	M. Okumura	Cal. Tech.	<i>Solvation and State-Mixing in Clusters</i>
	R. Saykally	U.C. Berkeley	<i>Infrared Cavity Ring-Down Laser Absorption Spectroscopy</i>
	T. Sears	Brookhaven	<i>Transient Frequency Modulation Spectroscopy of Simple Carbenes</i>
	J.K.G. Watson	S.I.M.S., NRC	<i>The Diffuse Interstellar Band Problem</i>
1996	A.D. Buckingham	Cambridge U.	<i>Molecules in Optical, Electric and Magnetic Fields</i>
	M. Alexander	U. Maryland	<i>Weakly Bound Complexes of Atomic Boron with Argon and Hydrogen</i>
	R. Curl	Rice U.	<i>Infrared Laser Spectroscopy, and Comments on the Discovery of C₆₀</i>
	M.A. Duncan	U. Georgia	<i>Electrostatic Bonding in Gas Phase Metal Atom Complexes</i>
	A. Stolow	S.I.M.S., NRC	<i>Time Resolved Photoelectron/Photoion Spectroscopy: Towards Wavepacket Technology</i>
	D. Wardlaw	Queen's U.	<i>Molecular Surface Hopping in Intense Laser Fields</i>
1995	W. Klemperer	Harvard U.	<i>Spectroscopy, Structure and Dynamics of Molecular Complexes</i>
	T. Carrington	U. Montr��al	<i>A Time Dependent Multi-Surface Calculation of the Orientation of Photofragments: The Photodissociation of ICN</i>
	T.A. Miller	Ohio State U.	<i>Laser Spectroscopy of Cold Methoxy Radicals and Its Derivatives: Molecules that Sometimes Fluoresce and Sometimes Don't</i>
	M. Moskovits	U. Toronto	<i>Thinking Small -- Megascience with Nanostructures</i>
	B. Simard	S.I.M.S, NRC	<i>Experimental and Theoretical Studues of Cu-group 13 and Al-group 14 Diatomics</i>
	W. Weisshaar	U. Wisconsin	<i>Understanding Methyl Rotor Barriers</i>
	{it Name	{it Affiliation	{it Title of Presentation
1994	G. Scoles	Princeton U.	<i>Clusters Within Clusters: Matrix Isolation Spectroscopy in Condensed Helium Beams</i>
	M.S. Child	Oxford U.	<i>Inversion of Spectroscopic Data</i>

	T.E. Gough	U. Victoria	<i>Infrared Spectroscopy of Molecular Microcrystallites</i>
	J.M. Hutson	U. Durham	<i>Additive and Non-Additive Intermolecular Forces from the Spectroscopy of Van der Waals Complexes</i>
	A.R.W. McKellar	H.I.A., NRC	<i>Long-Path Infrared Spectra of Weakly-Bound Complexes</i>
	R.E. Miller	U. North Carolina	<i>Photofragmentation of Oriented Molecules: New Insights into Photodissociation Dynamics from Pendular States</i>
1993	A. Zewail	Cal. Tech.	<i>Recent Advances in Femtochemistry</i>
	P. Hackett	NRC	<i>Studies of the Structure and Reactivity of Small Clusters</i>
	R. Kapral	U. Toronto	<i>The Structure and Dynamics of Binary Clusters</i>
	E.C. Lim	U. Akron	<i>Excited-State Dynamics and Photochemistry of Van der Waals Dimers and Clusters of Aromatic Molecules</i>
	A. Myers	U. Rochester	<i>Dissecting the Ensemble Average: Spectroscopy and Dynamics of Individual Molecules</i>
	P. Schultz	U. Western Ontario	<i>Probing Defects in Semiconductors with Slow Positrons</i>
1992	W.C. Lineberger	U. Colorado	<i>Time-Resolved Cage Recombination Dynamics in Large Molecular Cluster Ions</i>
	P.R. Bunker	H.I.A., NRC	<i>The Infrared Spectrum, Torsional Barrier and Vibrational Motions in Dimethylacetylene</i>
	J.B. McConkey	U. Windsor	<i>Use of Laser-Induced Fluorescence Techniques to Probe the Breakup of Simple Molecules Under Electron Impact</i>
	D. Perry	U. Akron	<i>Infrared Molecular Eigenstate Spectroscopy: A Probe for the Rate and Mechanism of Intramolecular Relaxation</i>
	L. Sanche	U. de Sherbrooke	<i>Surface Reactions and Desorption Induced by Electron Attachment</i>
	A.J. Thakkar	U. New Brunswick	<i>Van der Waals Coefficients, Polarizabilities and Hyperpolarizabilities: Current Computational Possibilities</i>
1991	R.Z. Zare	Stanford U.	<i>State-Selected and State-Detected Reaction Dynamics</i>
	T. Amano	H.I.A., NRC	<i>The Dissociative Recombination Rate of $H_2^+_3$</i>
	P. Houston	Cornell U.	<i>The HCO Potential Energy Surface: Probes Using Molecular Scattering and Photodissociation</i>
	W.J. Meath	U. Western Ontario	<i>Effects of Permanent Dipoles on the Resonance Profiles and Dynamics Associated with Single- and Multi-Photon Laser-Molecule Interactions</i>
	T. Rizzo	U. Rochester	<i>Multiple Laser Probes of Intramolecular Dynamics</i>
	D. Roy	Université Laval	<i>The Surface Chemistry of Silicon Investigated by Electron Spectroscopy: Some New Results</i>
1990	D.G. Truhlar	U. Minnesota	<i>Calculation of Quantum Effects in Chemical Reaction Dynamics</i>
	D.J. Donaldson	U. Toronto	<i>Predissociation Dynamics of CS_2</i>
	K.C. Janda	U. Pittsburgh	<i>Pump-Probe Studies of the Structure and Dynamics of Van der Waals Molecules</i>
	J. Barker	U. Michigan	<i>Collisional Deactivation of Highly Excited Polyatomic Molecules</i>
	B. Henry	U. Guelph	<i>Sources of Intensity for Local Mode Overtones</i>
	D. Salahub	U. Montréal	<i>Density Functional Theory and the Quantum Chemistry of Transition Metal Systems</i>
1989	J.P. Toennies	MPI, Göttingen	<i>Hot Molecules and Cold Clusters</i>
	P. Corkum	NRC	<i>Femtosecond Lasers for Chemical Physics</i>
	A.P. Hitchcock	McMaster U.	<i>Inner-Shell Excitation Spectroscopy of Molecules</i>
	S. Mukamel	U. Rochester	<i>Solvation Dynamics in Electron Transfer and Non-Linear Optical Susceptibilities: A Unified Description</i>
	R. Lipson	U. Western Ontario	<i>VUV Laser Spectroscopy of Reactive States: Valence to Ion-Pair Transitions of Halogens</i>
	V.H. Smith	Queen's U.	<i>Adventures in the 3-Body Problem: Exotic Molecules</i>
1988	R.S. Berry	U. Chicago	<i>How Good is Neil Bohr's Model of the Atom?</i>
	D. Rosner	U. Western Ontario	<i>Testing Quantum Electrodynamics with Lasers and Simple Atoms</i>
	R.F.W. Bader	McMaster U.	<i>A Quantum Theory of Molecular Structure</i>
	M.J. Dignam	U. Toronto	<i>Spectroscopy of Ordered Molecular Assemblies</i>
	W. Siebrand	NRC	<i>Tunneling of Hydrogen and Heavier Atoms</i>

	S. Filseth	York University	<i>Energy Disposal in CN Produced by Photodissociation and Reactions</i>
1987	D.R. Herschbach	Harvard U.	<i>Electronic Structure in Strange Dimensions</i>
	P. Norton	U. Western Ontario	<i>Phase Transitions and Surface Reactivity</i>
	R.J.D. Miller	U. Rochester	<i>Picosecond Dynamics of Surface Mediated Electron Transfer Processes at Single Crystal Semiconductor Interfaces</i>
	B. Schlegel	Wayne State U.	<i>Spin Pojection and Moller-Plessit Perturbation Theory</i>
	J. Reid	McMaster U.	<i>Optically Pumped NH₃ Laser: A New Approach to Stable Lasers</i>
	P. Brumer	U. Toronto	<i>Chaotic Intramolecular Energy Transfer</i>
	Y.T. Lee	U.C.-Berkeley	<i>Dynamics and Spectroscopy by Lasers and Molecular Beams</i>
1986	A. Bandrauk	U. Sherbrooke	<i>Non-Adiabatic Effects in Multiphoton Transitions</i>
	T.H. Ellis	U. Montr��al	<i>Direct Measurements of Surface Kinetics by Time Resolved EELS</i>
	W.L. Hase	Wayne State U.	<i>Potential Energy Surface Properties and Dynamics of H\$ +{\rm CH_3}\$ Recombination and IVR in Benzene</i>
	G. Scoles	U. Waterloo	<i>Atomic Beam Scattering Studies of Intermolecular Forces at the Gas-Solid Interface</i>
	S.C. Wallace	U. Toronto	<i>Excited State Dynamics of Van der Waals Clusters</i>
	R.B. Gerber	Hebrew U.	<i>Molecular Dissociation in Impacts on Crystal Surfaces</i>
1985	J.C. Polanyi	U. Toronto	<i>Photodissociation and Photodesorption of Adsorbed Species</i>
	T.F. George	SUNY-Buffalo	<i>Molecular Dynamics and Spectroscopy at Gas-Solid Interfaces</i>
	J. Hepburn	U. Waterloo	<i>State-to-State Photofragmentation of Small Molecules and Molecular Clusters</i>
	C.M. Sadowski	York University	<i>Energy Disposal in the Photodissociation of Triatomic Cyanides</i>
	M. Moskovitz	U. Toronto	<i>Photochemistry at Metal Surfaces</i>