



**Cinquième
Symposium
Canadien sur la
Chimie
Théorique**

Université d'Ottawa
23-29 juin 1974

**The Fifth
Canadian
Symposium on
Theoretical
Chemistry**

University of Ottawa
June 23-29, 1974

SCIENTIFIC PROGRAMME AND PARTICIPANT LIST

SESSION 8B

ROOM 224

20:50 CHAIRMAN: A. RAUK

D.P. CHENG	PERTURBATION CORRECTIONS TO KOOPMANS' THEOREM	10
D. MCWILLIAMS	PERTURBATIVE CORRECTIONS TO KOOPMANS' THEOREM	10
F. GREIN	POTENTIAL ENERGY CURVES FOR EXCITED VALENCE STATES OF PD (AND OTHER ISOELECTRONIC MOLECULES) OBTAINED BY AB INITIO METHODS	10
AJIT BANERJEE	A MULTICONFIGURATION METHOD BASED ON THE GENERALIZED BRILLOUIN THEOREM. PROPERTIES AND APPLICATIONS	10
M.S. GARCIA	SECOND ROW MOLECULAR ORBITAL CALCULATIONS	10
C. TRINDLE	NITRENE-METHYLENE INTERCONVERSION	10

SESSION 8C

ROOM 209

20:50 CHAIRMAN: W. FORST

M. ALEXANDER	POTENTIAL SURFACE DEPENDENCE OF VIBRATIONALLY INELASTIC COLLISIONS	10
G. HUNTER	QUANTUM MECHANICAL SCATTERING OF PROTONS BY HYDROGEN AND DEUTERIUM ATOMS	10
H. WEINSTEIN	THEORETICAL STUDIES OF MOLECULAR REACTIVITY	10
W.G. LAIDLAW	ANALYSIS OF LIGHT SCATTERED BY CHEMICALLY RELAXING SYSTEMS	10
M.D. PATTENGILL	A SEMI-CLASSICAL APPROXIMATION FOR ROTATIONAL EXCITATION	10
J.S. WRIGHT	UNREACTIVE ENERGY BANDS IN CLASSICAL TRAJECTORY CALCULATIONS	10

SESSION 8D

ROOM 224

22:10 CHAIRMAN: P. PHARISEAU

DEBBIE TUAN	PERTURBED UNCOUPLED HARTREE-FOCK METHODS FOR PHYSICAL PROPERTIES	10
J. SICHEL	DOUBLY EXCITED STATES OF RARE GASES	10
P. BAYBUTT	THE AB INITIO MOLECULAR ORBITAL DESCRIPTION OF SOME SN2 REACTIONS AT SILICON CENTERS	10
R.B. DAVIDSON	ELECTRONIC STRUCTURE OF TRIMETHYLENEMETHANE	10

DR HISCHIKO ADACHI
MATERIALS SCIENCE DEPARTMENT
NORTHWESTERN UNIVERSITY
EVANSTON ILL. 60201, USA

DR M. ALEXANDER
CHEMISTRY DEPARTMENT
UNIVERSITY OF MARYLAND
COLLEGE PARK, MARYLAND 20742, USA

DR R.F.W. BADER
CHEMISTRY DEPARTMENT
MCMASTER UNIVERSITY
HAMILTON, ONTARIO L8S4M1, CANADA

DR A. C. BANCRAUK
DEPARTEMENT DE CHIMIE
UNIVERSITE DE SHERBROOKE
SHERBROOKE, QUEBEC, CANADA

DR AJIT BANERJEE
CHEMISTRY DEPARTMENT
UNIVERSITY OF NEW BRUNSWICK
FREDERICTON, N.B., CANADA

DR K. F. BANYARD
DEPARTMENT OF PHYSICS
JOHNS HOPKINS UNIVERSITY
BALTIMORE MARYLAND, U.S.A.

DR P. RAYBUTT
BATTELLE MEMORIAL INSTITUTE
505 KING AVENUE
COLUMBUS, OHIO 43201, USA

DR ROBERT BENESECH
DEPT. OF COMPUTER SCIENCE
UNIVERSITY OF WATERLOO
WATERLOO, ONTARIO, CANADA

DR JULIUS BERNHARDT
DEPARTMENT OF CHEMISTRY
UNIVERSITY OF ALBERTA
EDMONTON 7, ALBERTA T6G2E2, CANADA

DR R.C. BHATTACHARJEE
CHEMISTRY DEPARTMENT
UNIVERSITE LAVAL
QUEBEC, CANADA

DR MARIA BIALSKA
CHEMISTRY DEPARTMENT
UNIVERSITY OF NEW BRUNSWICK
FREDERICTON, N.B., CANADA

DR DAVID W. BISHOP
DEPARTMENT OF CHEMISTRY
UNIVERSITY OF OTTAWA
OTTAWA, ONTARIO, CANADA K1N 6N5

DR R.J. BLINT
APL-LJ AEROSPACE RESEARCH LABS.
WRIGHT-PATTERSON AIR FORCE BASE
OHIO 45433, USA

DR T.D. BOUMAN
CHEMISTRY DEPARTMENT
SOUTHERN ILLINOIS UNIVERSITY
EDWARDSVILLE, ILL. 62025, USA

DR D.B. BOYD
LILLY RESEARCH LABORATORIES
INDIANAPOLIS
INDIANA 46206, U.S.A.

DR W. BROSTOW
CHEMISTRY DEPARTMENT
UNIVERSITY OF MONTREAL
MONTREAL 101, P.Q., CANADA

DR A.D. BUCKINGHAM
UNIVERSITY CHEMICAL LABORATORY
LENSFIELD ROAD
CAMBRIDGE, CB21EW, ENGLAND

DR P. BUNKER
DIVISION OF PHYSICS
NATIONAL RESEARCH COUNCIL
OTTAWA, ONTARIO K1A0R6, CANADA

DR T. CARRINGTON
FACULTY OF SCIENCE
YORK UNIVERSITY
DOWNSVIEW, ONTARIO, CANADA

DR THOMAS C. CAVES
DEPARTMENT OF CHEMISTRY
NORTH CAROLINA STATE UNIVERSITY
RALEIGH, N.C. 27607, U.S.A.

DR D.P. CHONG
CHEMISTRY DEPARTMENT
UNIVERSITY OF BRITISH COLUMBIA
VANCOUVER, B.C., CANADA

DR R.E. CHRISTOFFERSEN
CHEMISTRY DEPARTMENT
UNIVERSITY OF KANSAS
LAWRENCE, KANSAS 66044, USA

DR S. Y. CHU
SCHOOL OF CHEMISTRY
RUTGERS UNIVERSITY
NEW BRUNSWICK, N. J. 08903, U.S.A.

DR B.L. CLARKE
CHEMISTRY DEPARTMENT
UNIVERSITY OF ALBERTA
EDMONTON, ALBERTA, CANADA

DR A. J. COLEMAN
DEPARTMENT OF MATHEMATICS
QUEEN'S UNIVERSITY
KINGSTON, ONTARIO, CANADA

DR J.P. COLPA
DEPARTMENT OF CHEMISTRY
QUEEN'S UNIVERSITY
KINGSTON, ONTARIO, CANADA

DR HAROLD CONROY
DEPARTMENT OF CHEMISTRY
CARNEGIE-MELLON UNIVERSITY
PITTSBURGH, PA. 15213, U.S.A.

DR DENNIS COOMBE
DEPARTMENT OF CHEMISTRY
UNIVERSITY OF BRITISH COLUMBIA
VANCOUVER, B.C., CANADA

DR D.P. CRAIG
RESEARCH SCHOOL OF CHEMISTRY
AUSTRALIAN NATIONAL UNIVERSITY
CANBERRA, A.C.T. 2600, AUSTRALIA

DR I.G. CSIZMADIA
CHEMISTRY DEPARTMENT
UNIVERSITY OF TORONTO
TORONTO, ONTARIO M5S1A1, CANADA

DR G. DAS
CHEMISTRY DIVISION
ARGONNE NATIONAL LABORATORY
ARGONNE, ILL. 60439, U.S.A.

DR N.K. DAS GUPTA
DEPARTMENT OF CHEMISTRY
UNIVERSITY OF ALBERTA
EDMONTON, ALBERTA T6G2E1, CANADA

DR S.B. DAVIDSON
CHEMISTRY DEPARTMENT
AMHERST COLLEGE
AMHERST, MASS. 01002, USA

DR ORVILLE W. DAY, JR.
DEPARTMENT OF CHEMISTRY
UNIVERSITY OF GEORGIA
ATHENS, GEORGIA 30602, U.S.A.

DR G. DIERCKSEN
MAX-PLANCK INSTITUTE FOR PHYSICS
FOHRINGER RING 6
8 MUNCHEN, 40, W. GERMANY

DR P.A. DOROSH
CHEMISTRY DEPARTMENT
MOUNT HOLYOKE COLLEGE
SOUTH HADLEY, MASS. 01075, USA

DR C. L. COOSON
RESEARCH INSTITUTE A-8
THE UNIVERSITY OF ALABAMA IN HUNTSVILLE
HUNTSVILLE, ALABAMA 35807, U.S.A.

DR C.M. DUTTA
CHEMISTRY DEPARTMENT
HARVARD UNIVERSITY
CAMBRIDGE, MASS. 02138, USA

DR N.C. DUTTA
CHEMISTRY DEPARTMENT
HARVARD UNIVERSITY
CAMBRIDGE, MASS. 02138, USA

DR JAMES ELLENROGEN
DEPARTMENT OF CHEMISTRY
UNIVERSITY OF GEORGIA
ATHENS, GEORGIA 30602, U.S.A.

DR IRVING R. EPSTEIN
CHEMISTRY DEPARTMENT
BRANDEIS UNIVERSITY
WALTHAM, MASS., 02154, U.S.A.

DR B.C. EU
CHEMISTRY DEPARTMENT
MCGILL UNIVERSITY
MONTREAL, P.C., CANADA

DR M. FINKELMAN
CHEMISTRY DEPARTMENT
UNIVERSITY OF TORONTO
TORONTO, ONTARIO, CANADA

DR P.J. FLURRY
DEPARTMENT OF CHEMISTRY
UNIVERSITY OF NEW ORLEANS
NEW ORLEANS, LA. 70122, USA

DR W. FORST
CHEMISTRY DEPARTMENT
UNIVERSITE LAVAL
QUEBEC, CANADA

DR ANIKO E. FCTI
DEPARTMENT OF CHEMISTRY
QUEEN'S UNIVERSITY
KINGSTON, ONTARIO, CANADA

DR SERAFIN FRAGA
CHEMISTRY DEPARTMENT
UNIVERSITY OF ALBERTA
EDMONTON, ALBERTA, CANADA

DR K.F. FREED
JAMES FRANCK INSTITUTE
UNIVERSITY OF CHICAGO
CHICAGO, ILLINOIS 60637, USA

DR GORDON A. GALLUP
CHEMISTRY DEPARTMENT
UNIVERSITY OF NEBRASKA
LINCOLN, NEBRASKA 68508, USA

DR T.L. GILBERT
SOLID STATE SCIENCE DIVISION
ARGONNE NATIONAL LABORATORY
ARGONNE, ILL. 60439, USA

DR M.S. GORDON
CHEMISTRY DEPARTMENT
NORTH DAKOTA STATE UNIVERSITY
FARGO, NORTH DAKOTA, USA

DR J.E. GRABENSTETTER
CHEMISTRY DEPARTMENT
UNIVERSITY OF NEW BRUNSWICK
FREDERICTON, N.B., CANADA

DR F. GREIN
CHEMISTRY DEPARTMENT
UNIVERSITY OF NEW BRUNSWICK
FREDERICTON, N.B., CANADA

DR H.F. HAMEKA
DEPARTMENT OF CHEMISTRY
UNIVERSITY OF PENNSYLVANIA
PHILADELPHIA, PA 19104, USA

DR N.C. HANDY
THEORETICAL CHEMISTRY DEPARTMENT
LENSFIELD ROAD
CAMBRIDGE, ENGLAND

DR FRANK E. HARRIS
DEPARTMENT OF PHYSICS
UNIVERSITY OF UTAH
SALT LAKE CITY, UTAH 84112, U.S.A.

DR JOHN E. HARRIMAN
THEORETICAL CHEMISTRY INSTITUTE
UNIVERSITY OF WISCONSIN
MADISON, WISCONSIN 53706, U.S.A.

DR J.F. HARRISON
CHEMISTRY DEPARTMENT
MICHIGAN STATE UNIVERSITY
EAST LANSING, MICHIGAN 48823, USA

DR G.A. HENDERSON
DEPARTMENT OF PHYSICS
SOUTHERN ILLINOIS UNIVERSITY
EDWARDSVILLE, ILL. 62025, USA

DR G. HERZBERG
DIVISION OF PHYSICS
NATIONAL RESEARCH COUNCIL
OTTAWA, ONTARIO K1A0R6, CANADA

DR G.-L. HOFACKER
LEHRSTUHL FÜR THEORETISCHE CHEMIE
ARCSSTRASSE 21
MÜNCHEN, WEST GERMANY

DR J.T. HOUGEN
MOLECULAR SPECTROSCOPY SECTION
NATIONAL BUREAU OF STANDARDS
WASHINGTON, D.C. 20234, USA

DR G. HUNTER
CHEMISTRY DEPARTMENT
YORK UNIVERSITY
DOWNSVIEW, ONTARIO, CANADA

DR L.W. HUNTER
THE JOHNS HOPKINS UNIVERSITY
APPLIED PHYSICS LABORATORY
SILVER SPRING, MARYLAND 20910, USA

DR S. HUZINAGA
CHEMISTRY DEPARTMENT
UNIVERSITY OF ALBERTA
EDMONTON, ALBERTA T6G2E1, CANADA

DR Y. J. IHAYA
DEPARTMENT OF MATERIALS SCIENCE
UNIVERSITY OF ELECTRO-COMMUNICATIONS
CHOFU-SHI, TOKYO 182, JAPAN

DR S. IWATA
JAMES FRANCK INSTITUTE
UNIVERSITY OF CHICAGO
CHICAGO, ILL. 60637, USA

DR J. JANIS
DEPARTMENT OF CHEMISTRY
QUEEN'S UNIVERSITY
KINGSTON, ONTARIO, CANADA

DR K.H. JOHNSON
DEPARTMENT OF METALLURGY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY
CAMBRIDGE, MASS. 02139, USA

DR KENNETH D. JORDAN
CHEMISTRY DEPARTMENT
MASSACHUSETTS INSTITUTE OF TECHNOLOGY
CAMBRIDGE, MASS., 02139, U.S.A.

DR BHAIKAV D. JOSHI
CHEMISTRY DEPARTMENT
STATE UNIVERSITY OF NEW YORK
GENESEO, NEW YORK 14454, USA

DR KAPL JUG
DEPARTMENT OF CHEMISTRY
ST. LOUIS UNIVERSITY
ST. LOUIS, MISSOURI 63156, U.S.A.

DR PER KAIJSER
QUANTUM CHEMISTRY GROUP
UPPSALA UNIVERSITY
75120 UPPSALA, SWEDEN

DR UZI KALCCR
INSTITUTE OF CHEMISTRY
TEL-AVIV UNIVERSITY
RAMAT-AVIV, ISRAEL

DR R. KAPRAL
CHEMISTRY DEPARTMENT
UNIVERSITY OF TORONTO
TORONTO, ONTARIO, CANADA

DR E. KAPUY
QUANTUM THEORY GROUP
TECHNICAL UNIVERSITY OF BUDAPEST
BUDAPEST XI, HUNGARY

DR ROY KARI
DEPARTMENT OF CHEMISTRY
LAURENTIAN UNIVERSITY
SUDBURY, ONTARIO, CANADA

DR M. KASHA
INSTITUTE OF MOLECULAR BIOPHYSICS
FLORIDA STATE UNIVERSITY
TALAHASSEE, FLORIDA, USA

DR S. KATSUKI
CHEMISTRY DEPARTMENT
UNIVERSITY OF ALBERTA
EDMONTON, ALBERTA T6G2E1, CANADA

DR PETER KAZMAIER
DEPARTMENT OF CHEMISTRY
QUEEN'S UNIVERSITY
KINGSTON, ONTARIO, CANADA

DR JOEL KEIZER
CHEMISTRY DEPARTMENT
UNIVERSITY OF CALIFORNIA
DAVIS, CALIFORNIA 95616, USA

DR JAIME KELLER
FACULTAD QUIMICA
ESTUDIOS SUPERIORES
UNAM, MEXICO 20 DF, MEXICO

DR H.P. KELLY
DEPARTMENT OF PHYSICS
UNIVERSITY OF VIRGINIA
CHARLOTTESVILLE, VA., USA

DR C.W. KERN
BATTÉLLE MEMORIAL INSTITUTE
505 KING AVENUE
COLUMBUS, OHIO 43201, USA

DR M.L. KLEIN
DIVISION OF CHEMISTRY
NATIONAL RESEARCH COUNCIL
OTTAWA, ONTARIO K1A0R6, CANADA

DR S.K. KNUDSON
CHEMISTRY DEPARTMENT
FLORIDA TECHNOLOGICAL UNIVERSITY
ORLANDO, FLORIDA 32816, USA

DR ELISE KOCHANSKI
LABORATOIRE DE CHIMIE QUANTIQUE
UNIVERSITE LOUIS PASTEUR BP296/R8
67008 STRASBOURG, FRANCE

DR HOLGER KREEK
CHEMISTRY DEPARTMENT
UNIVERSITY OF WATERLOO
WATERLOO, ONTARIO, CANADA

DR K. KROGH-JESPERSEN
CHEMISTRY DEPARTMENT
NEW YORK UNIVERSITY
NEW YORK, N.Y. 10003, USA

DR W.G. LAIDLAW
CHEMISTRY DEPARTMENT
UNIVERSITY OF CALGARY
CALGARY, ALBERTA, CANADA

DR P.W. LANGHOFF
CHEMISTRY DEPARTMENT
INDIANA UNIVERSITY
BLOOMINGTON, INDIANA 47401, USA

DR S.R. LANGHOFF
BATTÉLLE MEMORIAL INSTITUTE
505 KING AVENUE
COLUMBUS, OHIO 43201, USA

DR J. P. LAPLANTE
DEPARTEMENT DE CHIMIE
UNIVERSITE DE SHERBROOKE
SHERBROOKE, QUEBEC, CANADA

DR EVERETT G. LARSON
DEPARTMENT OF PHYSICS AND ASTRONOMY
BRIGHAM YOUNG UNIVERSITY
PROVO, UTAH 84602, USA

DR WILLIAM A. LATHAN
DEPARTMENT OF CHEMISTRY
UNIVERSITY OF ROCHESTER
ROCHESTER, N.Y., 14620, U.S.A.

DR LAWRENCE LAWLOR
DEPARTMENT OF CHEMISTRY
UNIVERSITY OF NEW BRUNSWICK
FREDERICTON, N.B., CANADA

DR P.D. LEVINE
DEPARTMENT OF PHYSICAL CHEMISTRY
HEBREW UNIVERSITY
JERUSALEM, ISRAEL

DR MEL LEVY
DEPARTMENT OF CHEMISTRY
THE JOHN HOPKINS UNIVERSITY
BALTIMORE, MD. 21218, U.S.A.

DR J.F. LIFBMAN
CHEMISTRY DEPARTMENT
UNIVERSITY OF MARYLAND
BALTIMORE, MARYLAND 21228, USA

DR R.C. LIFOTKE
CHEMISTRY DEPARTMENT
MICHIGAN STATE UNIVERSITY
EAST LANSING, MICHIGAN 48824, USA

DR J. W. LIU
DEPARTMENT OF CHEMISTRY
QUEEN'S UNIVERSITY
KINGSTON, ONTARIO, CANADA

DR LOUIS MASSA
DEPARTMENT OF CHEMISTRY
HUNTER COLLEGE, C.U.N.Y.
NEW YORK, N.Y. 10021, USA

DR F.R. MCCOURT
CHEMISTRY DEPARTMENT
UNIVERSITY OF WATERLOO
WATERLOO, ONTARIO, CANADA

DR T. McMULLEN
CHEMISTRY DEPARTMENT
ST. FRANCIS XAVIER UNIVERSITY
ANTIGONISH, N.S., CANADA

DR P. MCWEENEY
CHEMISTRY DEPARTMENT
THE UNIVERSITY
SHEFFIELD, ENGLAND

DR D. MCWILLIAMS
CHEMISTRY DEPARTMENT
UNIVERSITY OF BRITISH COLUMBIA
VANCOUVER, B.C., CANADA

DR W.J. MEATH
CHEMISTRY DEPARTMENT
UNIVERSITY OF WESTERN ONTARIO
LONDON, ONTARIO, CANADA

DR ROBERT MESSER
DEPARTMENT OF CHEMISTRY
MCMASTER UNIVERSITY
HAMILTON, ONT L8S4M1, CANADA

DR RICHARD P. MESSMER
RESEARCH AND DEVELOPMENT
GENERAL ELECTRIC CORPORATE
SCHENECTADY, N.Y. 12301, U.S.A.

DR A.P. MORTCLA
554 MONROE COURT
RIVER EDGE
NEW JERSEY 07661, USA

DR J.W. MCSKCWITZ
CHEMISTRY DEPARTMENT
NEW YORK UNIVERSITY
WASHINGTON PLACE, N.Y. 10011, USA

DR D. MUNCH
CHEMISTRY DEPARTMENT
UNIVERSITY OF WASHINGTON
SEATTLE, WASHINGTON 98195, USA

DR J.N. MURRELL
SCHOOL OF MOLECULAR SCIENCES
UNIVERSITY OF SUSSEX
BRIGHTON, BN190J, ENGLAND

DR M.C. NEWTON
CHEMISTRY DEPARTMENT
BROCKHAVEN NATIONAL LABORATORY
UPTON, L.I., N.Y. 11973, USA

DR N.Y. OHRN
CHEMISTRY DEPARTMENT
UNIVERSITY OF FLORIDA
GAINESVILLE, FLORIDA, USA

DR I. OHMINE
CHEMISTRY DEPARTMENT
HARVARD UNIVERSITY
CAMBRIDGE, MASS. 02138, USA

DR SEAMUS F. O'SHEA
CHEMISTRY DEPARTMENT
UNIVERSITY OF WESTERN ONTARIO
LONDON, ONTARIO, CANADA

DR N.S. OSTLUND
CHEMISTRY DEPARTMENT
UNIVERSITY OF ARKANSAS
FAYETTEVILLE, ARKANSAS 72701, USA

DR F.T. PACK
CHEMISTRY DEPARTMENT
BRIGHAM YOUNG UNIVERSITY
PROVO, UTAH 84601, USA

DR J. PALCUS
DEPARTMENT OF APPLIED MATHEMATICS
UNIVERSITY OF WATERLOO
WATERLOO, ONTARIO, CANADA

DR P. PALTING
CHEMISTRY DEPARTMENT
UNIVERSITY OF ALBERTA
EDMONTON, ALBERTA T6G2E1, CANADA

DR T. PARAMESWARAN
CHEMISTRY DEPARTMENT
CARLETON UNIVERSITY
OTTAWA, ONTARIO, CANADA

DR P.G. PARR
CHEMISTRY DEPARTMENT
JOHNS HOPKINS UNIVERSITY
BALTIMORE, MD. 21218, USA

DR M.D. PATTEGILL
CHEMISTRY DEPARTMENT
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY 40506, USA

DR E. PAUL
STOCKTON STATE COLLEGE
POMONA
NEW JERSEY 08240, USA

DR ALVIN PENNER
CHEMISTRY DEPARTMENT
UNIVERSITE LAVAL
QUEBEC, CANADA

DR P. PHARISEAU
UNIVERSITY OF GHENT
KRIIGSLAAN 271
B-9000 GHENT, BELGIUM

DR M.R. PHILPOTT
DEPARTMENT K32/281
IBM RESEARCH LABORATORY
SAN JOSE, CALIFORNIA 95114, USA

DR CARLOS POLAT
DIVISION DE FISICA-I, B.P.
INSTITUTO MEXICANO DEL PETROLEO
APDO. POSTAL 14-805, MEXICO 14, D.F.

DR H. PRESTON
CHEMISTRY DEPARTMENT
JOHNS HOPKINS UNIVERSITY
BALTIMORE, MD. 21218, USA

DR WALLACE PRINGLE
DEPARTMENT OF CHEMISTRY
WESLEYAN UNIVERSITY
MIDDLETOWN, CONN. 06457, USA

DR H.O. PRITCHARD
FACULTY OF SCIENCE
YORK UNIVERSITY
DOWNSVIEW 463, ONTARIO, CANADA

DR ALFRED PULLMAN
INSTITUT DE BIOLOGIE PHYSICO CHIMIQUE
13 RUE PIERRE ET MARIE CURIE
75005 PARIS, FRANCE

DR D.A. RAMSAY
DIVISION OF PHYSICS
NATIONAL RESEARCH COUNCIL
OTTAWA, ONTARIO, CANADA

DR PETER T. RANDLE
DEPARTMENT OF CHEMISTRY
QUEEN'S UNIVERSITY
KINGSTON, ONTARIO, CANADA

DR M. RATNER
CHEMISTRY DEPARTMENT
NEW YORK UNIVERSITY
WASHINGTON PLACE, N.Y. 10003, USA

DR A. RAJK
CHEMISTRY DEPARTMENT
UNIVERSITY OF CALGARY
CALGARY, ALBERTA, CANADA

DR P. RESIBOIS
FACULTE DES SCIENCES
UNIVERSITE LIBRE DE BRUXELLES
1050 BRUSSELS, BELGIUM

DR S.A. RICE
CHEMISTRY DEPARTMENT
UNIVERSITY OF CHICAGO
CHICAGO, ILL. 60637, USA

DR FREDERICK S. RICHARDSON
DEPARTMENT OF CHEMISTRY
UNIVERSITY OF VIRGINIA
CHARLOTTESVILLE, VA 22901, U.S.A.

DR M.A. ROBB
CHEMISTRY DEPARTMENT
QUEEN ELIZABETH COLLEGE
LONDON, W97AH, ENGLAND

DR K.F. ROBY
RESEARCH SCHOOL OF CHEMISTRY
THE AUSTRALIAN NATIONAL UNIVERSITY
CANBERRA, A.C.T. 2600, AUSTRALIA

DR C.C.J. ROTHMAN
DEPARTMENT OF PHYSICS
UNIVERSITY OF CHICAGO
CHICAGO, ILLINOIS, USA

DR S.M. ROTHSTEIN
CHEMISTRY DEPARTMENT
BROCK UNIVERSITY
ST. CATHARINES, ONTARIO, CANADA

DR ROBERT A. ROUSE
CHEMISTRY DEPARTMENT
UNIVERSITY OF MISSOURI
ST. LOUIS, MISSOURI 63121, USA

DR J.P. SABIN
DEPARTMENT OF PHYSICS
UNIVERSITY OF FLORIDA
GAINESVILLE, FLORIDA 32601, USA

DR D.R. SALAFUD
CHEMISTRY DEPARTMENT
JOHNS HOPKINS UNIVERSITY
BALTIMORE, MD. 21218, USA

DR B.C. SANCTUARY
KAMERLINGH ONNES LABORATORY
NIEUWSTEEG 18
LEIDEN, HOLLAND

DR C. SANDORFY
CHEMISTRY DEPARTMENT
UNIVERSITY OF MONTREAL
MONTREAL 101, P.Q., CANADA

DR MARCEL SAUTE
DEPARTMENT OF APPLIED MATHEMATICS
UNIVERSITY OF WATERLOO
WATERLOO N2L3G1, ONTARIO CANADA

DR H.F. SCHAEFFER III
CHEMISTRY DEPARTMENT
UNIVERSITY OF CALIFORNIA
BERKELEY, CAL. 94720, USA

DR K. SCHAUMBURG
H.C. ØRSTED INSTITUTE
UNIVERSITETSPARKEN 5
COPENHAGEN, DENMARK

DR C.W. SCHERR
DEPARTMENT OF PHYSICS
UNIVERSITY OF TEXAS
AUSTIN, TEXAS 78712, USA

DR BARBARA E. SCHNEIDER
CHEMISTRY DEPARTMENT
CARLETON UNIVERSITY
OTTAWA, ONTARIO, CANADA

DR W.G. SCHNEIDER
DIVISION OF CHEMISTRY
NATIONAL RESEARCH COUNCIL
OTTAWA, ONTARIO K1A0R6, CANADA

DR WILLIAM R. SCOTT
DEPARTMENT OF CHEMISTRY
UNIVERSITY OF BRITISH COLUMBIA
VANCOUVER, B.C., CANADA

DR G. SHALHOUR
CHEMISTRY DEPARTMENT
MICHIGAN STATE UNIVERSITY
EAST LANSING, MICHIGAN 48824, USA

DR ISAIAH SHAVITT
RATTELLE MEMORIAL INSTITUTE
505 KING AVENUE
COLUMBUS, OHIO 43201, USA

DR S. SHIH
CHEMISTRY DEPARTMENT
UNIVERSITY OF OTTAWA
OTTAWA, ONTARIO, CANADA

DR J. SICHEL
CHEMISTRY DEPARTMENT
UNIVERSITY OF MONCTON
MONCTON, N.B., CANADA

DR W. SIEBRAND
DIVISION OF CHEMISTRY
NATIONAL RESEARCH COUNCIL
OTTAWA, ONTARIO K1A0R6, CANADA

DR H. J. SILVERSTONE
DEPARTMENT OF CHEMISTRY
THE JOHNS HOPKINS UNIVERSITY
BALTIMORE, MA 21218, U.S.A.

DR JACK SIMONS
CHEMISTRY DEPARTMENT
UNIVERSITY OF UTAH
SALT LAKE CITY, UTAH, 84112, U.S.A.

DR O. SINANOGLU
CHEMISTRY DEPARTMENT
YALE UNIVERSITY
NEW HAVEN, CONN. 06520, USA

DR J.A. SLEZAK
MOHAWK VALLEY COLLEGE
AMSTERDAM
NEW YORK 12010, USA

DR DARWIN W. SMITH
DEPARTMENT OF CHEMISTRY
UNIVERSITY OF GEORGIA
ATHENS, GEORGIA 30602, U.S.A.

DR VEDENE H. SMITH, JR.
DEPARTMENT OF CHEMISTRY
QUEEN'S UNIVERSITY
KINGSTON, ONTARIO, CANADA K7L 3N6

DR N.S. SNIDER
CHEMISTRY DEPARTMENT
QUEEN'S UNIVERSITY
KINGSTON, ONTARIO, CANADA

DR LAWRENCE C. SNYDER
BELL LABORATORIES
MURRAY HILL
NEW JERSEY 07974, USA

DR P. SOMORJAI
DIVISION OF CHEMISTRY
NATIONAL RESEARCH COUNCIL
OTTAWA, ONTARIO, CANADA

DR S. SREBENIK
CHEMISTRY DEPARTMENT
MCMASTER UNIVERSITY
HAMILTON, ONTARIO, CANADA

DR P.M. STEVENS
CHEMISTRY DEPARTMENT
HARVARD UNIVERSITY
CAMBRIDGE, MASS., 02138, USA

DR W.C. STWALLEY
CHEMISTRY DEPARTMENT
UNIVERSITY OF IOWA
IOWA CITY, IOWA 52242, USA

DR ERIK N. SVENDSEN
CHEMISTRY DEPARTMENT
UNIVERSITY OF PENNSYLVANIA
PHILADELPHIA, PA 19104, USA

DR H.S. TAYLOR
CHEMISTRY DEPARTMENT
UNIVERSITY OF SOUTHERN CALIFORNIA
LOS ANGELES, CAL. 90007, USA

DR W. J. TAYLOR
CHEMISTRY DEPARTMENT
OHIO STATE UNIVERSITY
COLUMBUS, OHIO, 43210, U.S.A.

DR J.J.C. TEIXEIRA-DIAS
CHEMICAL LABORATORY
UNIVERSITY OF COIMBRA
COIMBRA, PORTUGAL

DR AJIT J. THAKKAR
DEPARTMENT OF CHEMISTRY
QUEEN'S UNIVERSITY
KINGSTON, ONTARIO, CANADA K7L 3N6

DR RICHARD TIPPING
DEPARTMENT OF PHYSICS
MEMORIAL UNIVERSITY
ST. JOHN'S, NEWFOUNDLAND, CANADA

DR DAVID H. TODD
DEPARTMENT OF CHEMISTRY
WESLEYAN UNIVERSITY
MIDDLETOWN, CONN., 06457, U.S.A.

DR C. TRINDLE
CHEMISTRY DEPARTMENT
UNIVERSITY OF VIRGINIA
CHARLETTESVILLE, VIRGINIA 22903, USA

DR C.R. TRUAX
CHEMISTRY DEPARTMENT
UNIVERSITY OF CALGARY
CALGARY, ALBERTA, CANADA

DR FRANCIS S. TSUI
JAMES FRANCK INSTITUTE
UNIVERSITY OF CHICAGO
CHICAGO, ILLINOIS 60637, USA

DR DEBBIE TUAN
CHEMISTRY DEPARTMENT
KENT STATE UNIVERSITY
KENT, OHIO 44242, USA

DR J.T. WABER
MATERIALS SCIENCE DEPARTMENT
NORTHWESTERN UNIVERSITY
EVANSTON, ILL. 60201, USA

DR ALBERT WAGNER
CHEMISTRY DIVISION
ARGONNE NATIONAL LABORATORY
ARGONNE, ILL. 60439, U.S.A.

DR A.C. WAHL
CHEMISTRY DEPARTMENT
ARGONNE NATIONAL LABORATORY
ARGONNE, ILL. 60439, USA

DR FRANK WEINFELD
DEPARTMENT OF CHEMISTRY
STANFORD UNIVERSITY
STANFORD, CALIF. 94305, USA

DR F. WEINSTEIN
CHEMISTRY DEPARTMENT
THE JOHNS HOPKINS UNIVERSITY
BALTIMORE, MARYLAND 21218, USA

DR KARL WEISS
CHEMISTRY DEPARTMENT
NORTHEASTERN UNIVERSITY
BOSTON, MASS. 02115, USA

DR F.J. WEISS
ARMY MATERIALS RESEARCH CENTRE
WATERLOO
MASS. 02172, USA

DR ROSS W. WETMORE
LABORATOIRE DE CHIMIE THEORIQUE
BATIMENT 490, CENTRE D'ORSAY
91405 ORSAY, FRANCE

DR M.H. WHANGBO
DEPARTMENT OF CHEMISTRY
QUEENS UNIVERSITY
KINGSTON, ONTARIO, CANADA

DR J.S. WRIGHT
CHEMISTRY DEPARTMENT
CARLETON UNIVERSITY
OTTAWA, ONTARIO, CANADA

DR M. ZERNER
CHEMISTRY DEPARTMENT
UNIVERSITY OF GUELPH
GUELPH, ONTARIO, CANADA

DR DAN ZEROKA
DEPARTMENT OF CHEMISTRY
LEHIGH UNIVERSITY
BETHLEHEM, PA. 18015, USA