

1997 Gaseous Ions

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13. ABSTRACT (Maximum 200 words) The Gordon Research Conference (GRC) on GASEOUS IONS, STRUCTURE, ENERGETIC, & DYNAMICS was held in Ventura, California at DOUGLETREE HOTEL, from 2/23/97 thru 2/28/97. The conference was well-attended with 130 participants (attendess list attached). The attendess represented the spectrum of endeavor in this field coming from academia, industry, and government laboratories, both U.S. and foreign scientist, senior researchers, young investigators, and students.					
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**1997 GORDON RESEARCH CONFERENCE
on GASEOUS IONS, STRUCTURE, ENERG. & REACT.
FINAL PROGRESS REPORT**

**AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
GRANT NO. F49620-97-1-0085**

The Gordon Research Conference (GRC) on GASEOUS IONS, STRUCTURE, ENERG. & REACT. was held in Ventura, California at DOUBLETREE HOTEL from 2/23/97 thru 2/28/97. The Conference was well-attended with 130 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In designing the formal speakers program, emphasis was placed on current unpublished research and discussion of the future target areas in this field.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 As you know, in the interest of promoting the presentation of unpublished and frontier-breaking research, Gordon Research Conferences does not permit publication of meeting proceedings.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 SQUIRES
PURDUE UNIVERSITY**

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Gordon Research Conference

Structures, Energetics and Dynamics of Gaseous Ions

February 23 - 27, 1997

Doubletree Hotel, Ventura California

R. R. Squires, Chair T. Baer, Vice Chair

Program

Sunday, February 23

- 2:00 PM Registration
- 4:30 - 6:00 Reception & Poster Session I
- 6:00 - 7:00 Dinner
- 7:00 - 7:15 Opening Remarks/Announcements

Evening Session: Ion-Surface Interactions

- 7:15 - 7:30 Discussion Leader: Steve Bernasek, Princeton University
- 7:30 - 8:30 Graham Cooks, Purdue University
Dissociation, Reactions and Soft-Landing of Ions at Surfaces
- 8:30 - 9:30 Vicki Wysocki, University of Arizona
*Two Different Facets of Ion-Surface Collisions: Peptide Dissociation
and Dependence of Reactions on Orientation of Surface Chains*
- 9:30 - 10:30 Poster Session I, con'd

Monday, February 24

7:30 - 8:30 Breakfast

Morning Session: Organic Mechanisms

8:45 - 9:00 Discussion Leader: Helmut Schwarz, Technical University of Berlin

9:00 - 10:00 Chuck DePuy, University of Colorado at Boulder
Gas-Phase Electrophilic Substitution: CH_3^+ vs. BH_2^+

10:00 - 10:20 Break

10:20 - 11:20 John Holmes, University of Ottawa-Carleton
Ion Structure Assignment; Certainty and Speculation

11:20 - 12:20 Hans Grützmacher, University of Bielefeld
*Some Aspects of the Bimolecular Reactivity of Unsaturated
Organic Radical Cations*

12:30 - 1:30 Lunch

4:30 - 6:00 Poster Session II

6:00 - 7:00 Dinner

Evening Session: Atmospheric Chemistry/New Faces

7:15 - 7:30 Discussion Leader: Carl Howard, NOAA

7:30 - 8:30 Greg Huey, NOAA
*Ion Chemistry for the Selective Detection of HNO_3 and Other
Important Atmospheric Species*

8:30 - 9:30 Kim Prather, University of California at Riverside
Real-Time Analysis of Atmospheric Aerosols

9:30 - 10:30 Poster Session II, con'd

Tuesday, February 25

7:30 - 8:30 Breakfast

Morning Session: Reaction Dynamics

8:45 - 9:00 Discussion Leader: Doug Ridge, University of Delaware

9:00 - 10:00 Chava Lifshitz, The Hebrew University of Jerusalem
Time-Resolved Studies of PAHs and Fullerenes

10:00 - 10:20 Break

10:20 - 11:20 Rob Dunbar, Case Western Reserve University
Binding Metal Ions to Planar π -Systems

11:20 - 12:20 Seung-Koo Shin, University of California at Santa Barbara
*Time- and Product-Resolved Photodissociation of Toluene
and Halotoluene Radical Cations*

12:30 - 1:30 Lunch

4:30 - 6:00 Poster Session III

6:00 - 7:00 Dinner

Evening Session: Theory

7:15 - 7:30 Discussion Leader: Scott Gronert, San Francisco State University

7:30 - 8:30 Bill Hase, Wayne State University
*Trajectory Studies of Energy Transfer in the Reaction and
Dissociation of Gaseous Ions*

8:30 - 9:30 Wes Borden, University of Washington
*Gas-Phase Ion Chemistry as a Tool for Investigating Organic
Molecules of Theoretical Interest -- The Synergy between Calculations
and Experiments*

9:30 - 10:30 Poster Session III, con'd

Wednesday, February 26

7:30 - 8:30 Breakfast

Morning Session: Biological/Electrospray Ionization

8:45 - 9:00 Discussion Leader: Julie Leary, University of California at Berkeley

9:00 - 10:00 Scott McLuckey, Oak Ridge National Laboratory
Gas-Phase Bio-Ion / Ion Chemistry in the Paul Trap

10:00 - 10:20 Break

10:20 - 11:20 Evan Williams, University of California at Berkeley
*Blackbody Infrared Radiative Dissociation of Large Biomolecule Ions:
A Route to Energetics and Dynamics*

11:20 - 12:20 Mike Bowers, University of California at Santa Barbara
*Conformations of Biologically Interesting Molecules in the Gas Phase:
The Latest News*

12:30 - 1:30 Lunch

1:30 - 2:00 Business Meeting to Select New Vice-Chair

4:30 - 6:00 Poster Session IV

6:00 - 7:00 Dinner

Evening Session: Molecular Clusters

7:15 - 7:30 Discussion Leader: Will Castleman, Pennsylvania State University

7:30 - 8:30 Michael Mautner, NIST & University of New Zealand
*Multi-body Cooperative Processes: New Reactions Observed in Ionic
Polymerization*

8:30 - 9:30 Al Viggiano, Phillips Laboratory
Thermal Energy Reactions of Cluster Ions

9:30 - 10:30 Poster Session IV, con'd

Thursday, February 27

7:30 - 8:30 Breakfast

Morning Session: Spectroscopy/Threshold Ionization

8:45 - 9:00 Discussion Leader: Mark Johnson, Yale University

9:00 - 10:00 Carl Lineberger, JILA/University of Colorado at Boulder
Time-Resolved Dynamics in Large Cluster Ions

10:00 - 10:20 Break

10:20 - 11:20 Ed Grant, Purdue University
State-to-State Dynamics of Polyatomic Photoionization

11:20 - 12:20 Klaus Müller-Dethlefs, University of York
*Structure and Dynamics of Molecular Ions and Clusters Studied
by ZEKE Spectroscopy*

12:30: - 1:30 Lunch

6:00 - 7:30 Conference Banquet

Evening Session: Featured Speaker

7:30 - 7:40 Introduction: Bob Squires

7:40 - 8:40 Eldon Ferguson, NOAA
Flowing Afterglow Studies of Ion-Molecule Reactions, 1964-1996

9:00 - 12:00 Social with Live Music

Friday, February 28

departure

1997 Gaseous Ions Gordon Conference Poster Sessions

Sunday Posters

1. Size Selective Protonation within $(\text{ROH})_n$ $(\text{H}_2\text{O})\text{H}^+$ Cluster Ions

Michael M. Y. Lykтей, Robert L. DeLeon, and James F. Garvey
Department of Chemistry, Natural Sciences & Mathematics Complex
State University of New York, University at Buffalo, Buffalo, NY 14260-3000

2. Metal-ion chemistry in Clusters Initiated by Ionization/Dissociation of Organometallic Precursors

S. Bililign†, L. Liu, C. S. Feigerle and John C. Miller
Chemical and Biological Physics Section, Oak Ridge National Lab, PO Box 20008; Oak Ridge, TN 831 and
Department of Chemistry, University of Tennessee, Knoxville, TN 996
† Also at Physics Department, North Carolina A&T State University, 1601 East Market St., Greensboro, NC 27411.

3. On the Dynamical Shell Structure of Hydrogen Cluster Ions

S. Schlemmer, W. Paul, and D. Gerlich
Technical University Chemnitz, Germany

4. H^+ , Li^+ , and Na^+ Affinity Study of N_2 , P_2 and their Isoelectronic Species

Yu-Nung Su, Ming-Sung Tsai, and San-Yan Chu
Department of Chemistry, National Tsing Hua University, Taiwan

5. The Gas-phase Complex $[\text{t-C}_4\text{H}_9^+ / 1,4\text{-Benzylbicyclo}[2.2.2]\text{octane}]$

Dietmar Kuck, Carsten Matthias and Björn Bredenkötter
Department of Chemistry, University of Bielefeld, Germany

6. Treatment of Competitive Dissociation Processes by Threshold Collision-Induced Dissociation. Implications for the Kinetic Method.

P. B. Armentrout, and Mary T. Rodgers
Department of Chemistry, 3516 Henry Eyring Building, University of Utah, Salt Lake City, UT 84112

7. Formation and Rearrangements of Ion-Molecule Complexes Between Ethylene and Acetylene

Thomas Bally¹, G. Narahari Sastry¹, Petr Carsky², Pavel Jungwirth², Vojtech Hrouda², and Martina Roeseloya²

1) Institut de Chimie Physique, Universite de Fribourg, CH-1700 Fribourg, Switzerland

2) Academy of Sciences of the Czech Republic, Prague

8. Rate Constants for the Reactions of O^+ with N_2 and O_2 and N^+ and N_2^+ with O_2 as a Function of Temperature (300-1800K).

I. Dotan,^a P.M. Hierl,^b J.V. Seeley, J.M. VanDoren,^c R.A. Morris and A.A. Viggiano
Phillips Laboratory, Geophysics Directorate, Ionospheric Effects Division (GPID); 29 Randolph Rd.
Hanscom AFB, MA 01731. a) The Open University of Israel, 16 Klausner St., Ramat-Aviv, Tel-Aviv,
ISRAEL. b) Department of Chemistry, University of Kansas, Lawrence, KS 66045. c) Department of
Chemistry, College of the Holy Cross, Worcester, MA 01610.

9. Spectroscopy of Transition Metal Ions and Coordination Complexes in Cluster Environments

Thomas G. Spence, Brett T. Trotter, and Lynmarie A. Posey

Department of Chemistry, Vanderbilt University, Station B. Box 1822, Nashville, TN 37235

10. Carbanion Chemistry: Recent Results

Steven Kass, Michael Hare, Dana Reed, Kathy Broadus, and Tina Arrowood

University of Minnesota, Department of Chemistry, 207 Pleasant St. S.E., Minneapolis, MN 55455

11. PTR-MS: Medical applications, food research and air quality

W. Lindinger, A. Jordan, A. Hansel, C. Warneke, R. Holzinger, P. Prazeller, and W. Vogel

Institut für Ionenphysik, Universität Innsbruck, Technikerstrasse 25, 6020 Innsbruck, AUSTRIA

12. The ground state (1A_1) and the lowest triplet state (3B_1) of the phenyl cation $C_6H_5^+$ revisited

Jan Hrušák,^{a,c} Detlef Schröder,^b and Suehiro Iwata^c

a) Academy of Sciences of the Czech Republic, J. Heyrovsky Institute of Physical Chemistry, Cz-18223

Prague 8, Czech Republic. b) Institut für Organische Chemie der Technischen Universität Berlin, Straße des

17. Juni 135, D-10623 Berlin, Germany. c) Institute for Molecular Sciences, Myodaiji, Okazaki 444, Japan

13. Rate Constants for the Reactions of Chloride Ion with Methyl Bromide and with n-Butyl Bromide over the Pressure Range, 300 to 1100 Torr, by Ion Mobility Spectrometry

W.B. Knighton, K.E. Sahlstrom, and E.P. Grimsrud

Department of Chemistry, Montana State University, Bozeman, Montana 59717

14. Surface induced dissociation (SID) of benzene ions on self-assembled monolayer surface (SAM) by FT-ICR

Wenqing Zhong, Eugene Nikolaev*, Jean Futrell, and Vicki Wysocki**

Department of Chemistry, University of Delaware, Newark, DE 19716

*Institute of energy Problems of Chemical Physics, Russian Academy of Sciences, Russia

**Department of Chemistry, University of Arizona, Tucson, AZ 85721

15. Infrared Spectra of Molecular Ions Formed from SF_4 and SF_6 and Trapped in Solid Neon

Marilyn E. Jacox, Catherine L. Lugez, Rollin A. King, and H. F. Schaefer III

Optical Technology Division, National Institute of Standards and Technology
Gaithersburg, Maryland 20899

16. H^- transfer in reactions of acetylene and ethylene cations with small hydrocarbons

H. Palm, C. Alcaraz, D. Berthomieu, M. Fieber-Erdmann*, Z. Herman**, and O. Dutuit

LPCR and LURE, Centre Universitaire Paris-Sud, 91405- Orsay Cedex, France

*Synchrotron Strahlung AS, Hahn-Meitner Institut, D-14109, Berlin, Germany

**J. Heyrovsky Institute of Physical Chemistry, Academy of Sciences of the Czech Republic, Dolejskova 3,
182 23 Prague 8, Czech Republic)

17. The Acidities and Basicities of Doubly Charged Ions: An ab initio Study.

Scott Gronert

Department of Chemistry and Biochemistry, San Francisco State University
San Francisco, CA 94132

18. Hydrogen Bonding in the Gas Phase: Lessons from the Potential Energy Surface

Michael L. Chabinyc and John I. Brauman

Department of Chemistry, Stanford University, Stanford CA 94305-5080

19. Stereoselective β -Hydrogen Elimination from ESI-generated Nickel(II) N-Glycoside Complexes

Glenn Smith, Steven F. Pedersen, and Julie A. Leary

Department of Chemistry, University of California, Berkeley, CA 94720

20. Gaseous Ionized Alkylphosphines: a Rich Source of Distonic Phosphorus-Containing Ions

Helmut Keck, Andreas Schweighofer

Heinrich-Heine-Universität Düsseldorf, Institut f. Anorganische Chemie und Strukturchemie
Universitätsstr. 1, D-40025 Düsseldorf, Germany

21. VUV Peaks in Absorption Spectra and in Photoion Yield Curves of Polycyclic Aromatic Hydrocarbons and Related Compounds

S. Leach^a, H.W. Jochims^b, E. Rühl^b, H. Baumgärtel^b, and S. Tobita^{a,b}

a) Département Atoms et Molécules en Astrophysique, URA812, Observatoire de Paris-Meudon, 92195 Meudon, France

b) Institut für Physikalische und Theoretische Chemie, der Freien Universität Berlin, Takustr. 3 14195 Berlin, Germany

22. Generation of Intense Cluster Ion Beams Through High Voltage Discharge Ionization and Ablation

Carlos Manzanares and Ansgar Brock

Department of Chemistry, Baylor University, Waco, Texas 76798

23. A SIFT Study of the Reactivity of Cations Derived from Naphthalene with Molecules and Atoms

Valery LePage, Veronica Bierbaum and Theodore P. Snow

Department of Chemistry and Biochemistry, and Center for Astrophysics and Space Astronomy, University of Colorado, Boulder CO, 80302

Monday Posters

1. Thermal Dissociation Of Acetophenone Molecular Ions Activated By Incoherent Infrared Radiation

Marcelo Sena and José M. Riveros

Instituto de Química, Universidade de São Paulo, Caixa Postal 26077, São Paulo, Brazil, CEP 05599-970

2. Strength of alkali metal coordination to N-acetylglucosamine sugars determined by on and off-resonance CID/MALDI/FTMS

Carlito B. Lebrilla, Mark T. Cancilla, Sharon G. Penn

Department of Chemistry, University of California, Davis, CA 95616

3. Theoretical Determination of Glycine Affinity for Li⁺, Na⁺, K⁺, Rb⁺, Cs⁺, Al⁺, and Cu⁺

S. Hoyau and G. Ohanessian

Laboratoire des Mecanismes Reactionnels, Department de Chimie, URA CNRS 1307
Ecole Polytechnique, 91128 Palaiseau Cedex, FRANCE

4. True Gas Phase Protein Sequencing Strategies using Mass Spectrometry: Mechanisms and Energetics of Highly Specific Cleavage Processes

Sang-Won Lee, and J. L. Beauchamp

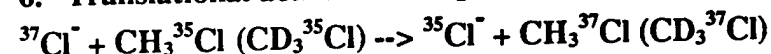
Mail Stop 127-72, California Institute Technology, Pasadena, CA 91125

5. Metal Ion Binding to Biomolecules. Attachment Sites from Bond Energies and Entropy Effects

Chrys Wesdemiotis and Blas A. Cerda

Department of Chemistry, The University of Akron, Akron, OH 44325-3601

6. Translational activation of S_N2 reactions:



Kent M. Ervin, Vincent F. DeTuri, and Paul A. Hintz

Department of Chemistry/216, University of Nevada, Reno, NV 89557

7. Symmetric and Unsymmetric Halide-Halide interactions. Some examples of Two-Center Three-Electron Bonds.

Andreas J. Illies and Linda S. Nichols

Department of Chemistry, Auburn University, AL 36849-5314

8. State Selective Ion-Molecular Reaction: C₂H₂⁺ + NH₃

Jun Qian, Hungsin Fu, and Scott Anderson

Department of Chemistry, University of Utah, Salt Lake City, UT 84112

9. Zero-pressure thermal radiatively induced dissociation (ZTRID) in the 'virtual' low pressure regime.

Timothy L. Hoffman and Terrance B. McMahon

Chemistry Department, University of Waterloo, Waterloo, Ontario N2L 3G1, Canada

10. SIFDT study of the formation and dissociation of CO-N₂⁺ ions in a nitrogen buffer

W. Lindinger, J. Glosik, G. Bano, and E.E. Ferguson

Institut für Ionenphysik, Universität Innsbruck, Technikerstrasse 25, 6020 Innsbruck, AUSTRIA

11. Gas phase ion-molecule reactions as models for ion surface collision association reactions

Steven L. Bernasek, Lynn M. Phelan, Julie Flynn, Scott B. Ficarro, and Mark J. Hayward

Department of Chemistry, Princeton University, Princeton, NJ 08544

12. Reactions of methyl cations with small hydrocarbons: Hydride ion transfer and other direct mechanisms

Stefan Mark^a and Dieter Gerlich

Institut für Naturwissenschaften, Technische Universität, Reichenhainer Str. 70 D-09107 Chemnitz, Germany
and a) Department of Chemistry, University of California, Berkeley, CA 94720-1460

13. Rare Gas Mediated Methane Activation by Small Transition Metal Cluster Cations
Gerhard Albert, Christian Berg, Martin Beyer, Uwe Achatz, Stefan Joos, Gereon Niedner-Schatteburg, and Vladimir E. Bondybey
Institut für Physikalische und Theoretische Chemie, TU München, Lichtenbergstrasse 4, 85356 Garching, Germany

14. Photoelectron Spectroscopy of Ions Derived from Cyclooctatetraene
Paul G. Wenthold, and W. Carl Lineberger
JILA, Campus Box 440, University of Colorado, Boulder, CO 80309

15. Dynamics of ion molecule reactions in clusters
A.W. Castleman, Jr., E.M. Snyder, D.A. Card, D.E. Folmer, S. Sato, and S.A. Buzza
Department of Chemistry, 152 Davey Laboratory, The Pennsylvania State University
University Park, PA 16802

16. A study of the dissociation of CH_3SH^+ by collisional activation: Observation of non-statistical behavior
P.T. Fenn, S. Stimson, and C.Y. Ng
Department of Chemistry, Iowa State University, Ames, IA 50011

17. A model calculation on interactions between alkali metals and a Si surface: an *Ab-initio* MO study
Akira Shimizu and Hiroto Tachikawa
Graduate School of Engineering, Hokkaido University, Sapporo 060, Japan

18. Intrinsic Reactivity of Metal-Hydroxide Complexes with Electrophiles: Gas-Phase Reactions of $[\text{Cp}_2\text{ZrOH}]^+$ Cations with Alcohols, Amines, Ethers, and Carboxylic Acid Derivatives.
Matthew F. Ryan, David E. Richardson, and John R. Eyler
Department of Chemistry and Physics, Purdue University Calumet, Hammond, IN 46323

19. The interstellar Haber-Bosch process
Murray J. McEwan, Graham B. Scott, David A Fairley, and Colin G. Freeman
Department of Chemistry, University of Canterbury, Christchurch, NEW ZEALAND

20. Gas phase reactions of group 15 EI_2^+ ions (E = P, As, Sb, and Bi) with n-butyl benzene: periodic changes in the reactivity of group 15 elements
Heinrich L. Sievers, Hans-Friedrich Grützmacher, and Dirk Kirchhoff
University of Bielefeld, Department of Chemistry, P.O.B. 100131, D-33501 Bielefeld Germany

21. Even/Odd Alternation in Styrene Cluster Ions and Intracuster Proton Transfer Reactions
Y. B. Pithawalla, Zhongde Yu, J. Gao, and M. Samy El-Shall
Department of Chemistry, Virginia Commonwealth University, Richmond, VA 23284-2006

22. Distonic Carbene Negative Ions
Jun Hu, Brian T. Hill, Robert R. Squires
Purdue University, Department of Chemistry, West Lafayette, IN 47907-1393

23. Influence of location of ionizing proton(s) on fragmentation of peptides.
Vicki H. Wysocki and Hari Nair,
RN#231, Old Chemistry bldg, Department of Chemistry, University of Arizona,
Tucson, AZ 85721

24. Molecular Dynamics Simulation of Gas Phase Ion Solvation
Orlando M. Cabarcos and James M. Lisy
School of Chemical Sciences, 600 S. Mathews Ave., Box 31-6, Urbana, IL 61801

25. Ion Photodissociation Kinetic Energy Release in an Octopole Ion Guide
Skip Williams, Rainer Dressler, Dale Levandier, and Edmond Murad
Phillips Laboratory/GPOS, 29 Randolph Rd., Hanscom AFB, MA 01731-3010

Tuesday Posters

1. Collision Induced Dissociation within Multiply Charged Ammonia Clusters
Eric Rexer, Robert L. DeLeon, and James F. Garvey
Department of Chemistry, Natural Sciences & Mathematics Complex
State University of New York, University at Buffalo, Buffalo, NY 14260-3000

2. Photoinitiating the S_N2 Reaction, $NO_2^- + CH_3X \rightarrow X^- + CH_3NO_2$ (X = Cl, Br, and I): Using Dipole-Bound Excited States as Doorways to the Electronic Excited States of S_N2 Reactions
Caroline E.H. Dessent and Mark A. Johnson
Department of Chemistry, Yale University, New Haven, Conn.

3. Photoelectron Spectroscopy of Small Cluster Anions; Dipole Bound, Ground State Systems, and their Evolution toward Solvated Electron Species
Helen L. de Clercq, J.H. Hendricks, S.a. Lypustina, and K.H. Bowen
Department of Chemistry, The Johns Hopkins University, Baltimore, MD 21218

4. Rate Coefficients for the Endothermic Reactions: $C^+(^2P) + H_2(D_2) \rightarrow CH^+(CD^+) + H(D)$ as Functions of Temperature from 400 - 1300 K
Peter M. Hierl^a, Robert A. Morris, and A.A. Viggiano
Phillips Laboratory, Geophysics Directorate, Ionosphere Effects Division (GPID); 29 Randolph R. Hanscom AFB, MA 01731-3010
a) Permanent Address: Department of Chemistry, University of Kansas, Lawrence, KS 66045-0046

5. Symmetry Induced Kinetic Isotope Effects in the formation of $CO_2^+ + Ar$
Gregory I. Gellene and R. K. Yoo
Department of Chemistry and Biochemistry, Texas Tech University, Lubbock, Texas 79409-1061

6. Delayed ejection of phenylethanethiol from a self-assembled monolayer upon ion beam bombardment.
Donald E. Riederer and Nicholas Winograd
Department of Chemistry, 123 Chemistry Building, University of Missouri, Columbia, MO 65211

7. Low energy collision-induced dissociation and photodissociation studies of the $(\text{N}_2\text{O}, \text{H}_2\text{O})^+$ cluster ion

Rainer A. Dressler, Dale J. Levandier, Peter B. Armentrout, Michael J. Bastian, Edmond Murad, and Felician Muntean

PL/GPOS, Hanscom AFB, MA 01731-3010; and Department of Chemistry, University of Utah, Salt Lake City, UT 84112

8. Cluster formation and its role in the process of Matrix Assisted Laser Desorption

J. Grotemeyer and A. Meffert

Am Technologiepark 1, 03099 Kolkwitz, Germany

9. Olefin Oxidation by Transition-Metal Dioxides: [2+2] versus [3+2] Route

Detlef Schröder, Jeremy N. Harvey, and Helmut Schwarz

Department of Chemistry, Technical University of Berlin, Strasse des 17 Juni 135 D-10623 Berlin, Germany

10. Gas phase ion-molecule reactions in the identification of chemical warfare related agents in an ion trap mass spectrometer

Sunia Afzaal

Bruker Analytical Instruments, Inc., 19 Fortune Dr. Billerica, MA

11. The Structures and Proton Affinities of Mono-Substituted Phenyl Anions, $\text{C}_6\text{H}_4\text{X}^-$ ($\text{X} = \text{F}, \text{Cl}, \text{Br}, \text{CH}_3, \text{C}_2\text{H}_5, \text{NH}_2, \text{OCH}_3, \text{CN}, \text{CHO}, \text{NO}_2$ and CF_3): A Theoretical Study

Ming Wah Wong

Department of Chemistry, The University of Queensland, Brisbane, QLD 4072, Australia

12. Energetics of Ethylsilane Ion Dissociations Studied by TPEPICO

Jeffrey W. Keister, Paivi Tomperi, Ryan Biddell and Tomas Baer

Chemistry Department, University of North Carolina, Chapel Hill, NC 27599-3290

13. The Gas-Phase Neutral Chemistry of $\text{C}_2\text{H}_2\text{N}$ Radicals: Implications for the Ion Surface.

Paul M. Mayer, Mark S. Taylor, Chris J. Parkinson, and Leo Radom

Research School of Chemistry, Australian National University, Canberra, ACT 0200 Australia

14. Structural Dichotomy in the Electronic States of the CrO_2^{2+} Di-cation

Ilona Kretschmar, Andreas Fiedler, Detlef Schröder, and Helmut Schwarz

Technische Universität Berlin, D-10623 Berlin, Germany

15. Absolute cross sections of charge transfer reactions of sodium with N_2^+ , NO^+ and O_2^+ : a guided-ion beam study.

Dale J. Levandier, Rainer A. Dressler, Skip Williams, and Edmond Murad

PL/GPOS, 29 Randolph Road, Hanscom AFB, MA 01731-3010

16. Intramolecular proton bridges in peptides: Effects on fragmentation.

Richard W. Vachet, T. Joon Lee, and Michael R. Asam, and Gary Glish

Chemistry Department, University of North Carolina, Chapel Hill, NC 27599-3290

17. Infrared Photodissociation of Proton Bound Dimers in a FTICR Spectrometer: A study of the interaction of radiation and ions under collision free conditions.

D. Scott Tonner and T.B. McMahon

Department of Chemistry, University of Waterloo, Waterloo, Ontario N2L 3G1 CANADA

18. Evaporation Dynamics of Na⁺(Methanol)₂₋₈

Corey J. Weinheimer and James M. Lisy

School of Chemical Sciences, 600 S. Mathews Ave., Box 48-6, Urbana, IL 61801

19. Chemical Characterization of Radical Anions

Joseph J. Grabowski, Daniel Owusu, and Jiang Zhao

Department of Chemistry, University of Pittsburgh, Pittsburgh, PA 15260

20. Low Energy Guided Ion Scattering for Isomer Analysis.

Zhi Li and Scott Anderson

Department of Chemistry, University of Utah, Salt Lake City, Utah, 84112

21. Electron-Molecular Ion Interactions at Low Energy

Lars Andersen

Institute of Physics and Astronomy, Aarhus University, DK8000 Aarhus C, Denmark
present address JILA, University of Colorado, Boulder, CO 80303

22. Bond Strengths in Polyhalide Ions

Lee Sunderlin, Cynthia Pommerening, Katrina Nizzi, Khanh Do, and Timothy Klein

Department of Chemistry, Northern Illinois University, DeKalb IL 60115

Wednesday Posters

1. Collision Induced Dissociation of Mass Selected Ethylene Cluster Ions (n=2-7)

Michael Y. M. Lykтей, T. Rycroft, and James F. Garvey

Department of Chemistry, NSM Complex, State University of New York at Buffalo, Buffalo, NY 14260

2. Experimental and Theoretical Investigation of FSi(OCH₃)₂(OCH₂)⁻: A Gas Phase Fluoride-Silaoxirane Adduct

Nelson H. Morgon, ‡ Andre B. Argenton, Maria L. P. da Silva and José M. Riveros

Institute of Chemistry, University of São Paulo, Caixa Postal 26077, São Paulo, Brazil, CEP 05599-970

‡ Present address: Institute of Chemistry, University of Campinas, Campinas, SP, Brazil

3. Sequential Dehydrogenation of Hydrocarbons by W⁺ in the Gas Phase

G. Ohanessian, P. Mourgues, A. Ferhati, T. B. McMahon

Laboratoire des Mécanismes Réactionnels, Ecole Polytechnique, URA CNRS 1307, 91128 Palaiseau Cedex, FRANCE

4. Absolute Total Cross Section Study of the Dissociation Reaction of CH₃OH⁺ by Collisional Activation

Yu-Ju Chen, P.T. Fenn, and C.Y. Ng

Department of Chemistry, Iowa State University, Ames, IA 50011

5. The Fragmentation of Long-lived Protonated Alkylcyclohexatrienes

Dietmar Kuck and Michael Mormann

Department of Chemistry, University of Bielefeld, Germany

6. The Neutral Fragments Formed by Decomposing Biomolecular and Cluster Ions

Chrys Wesdemiotis, Blas A. Cerda, Michael J. Polce, and Da Ren

Department of Chemistry, The University of Akron, Akron, OH 44325-3601

7. Energy dependence of the proton transfer system $\text{H}_3\text{O}^+ + \text{CH}_2\text{O} \rightarrow \text{CH}_2\text{OH}^+ + \text{H}_2\text{O}$

W. Lindinger, A. Hansel, W. Singer, A. Wisthaler, and M. Schwarzmann

Institut für Ionenphysik, Universität Innsbruck, Technikerstrasse 25, 6020 Innsbruck, AUSTRIA

8. Energy dependence of the isomerization of HCN^+ to HNC^+ via ion molecule reactions

W. Lindinger, A. Hansel, M. Glantschnig, Ch. Scheiring, and E.E. Ferguson

Institut für Ionenphysik, Universität Innsbruck, Technikerstrasse 25, 6020 Innsbruck, AUSTRIA

9. Comparative ab initio and hybrid DFT studies relevant to an experimental investigation of neutral and cationic $[\text{Si,P,H}_2]$ isomers

Jan Hrušák, Detlef Schröder¹, Helmut Schwarz¹, and Suehiro Iwata²

Institute of Physical Chemistry, Academy of Sciences of the Czech Republic, Dolejšková 3, CZ-182 23 Praha, Czech Republic

1) Institut für Organische Chemie der Technischen Universität Berlin, Straße des 17. Juni 135, D-10623 Berlin, Germany

2) Institute for Molecular Sciences, Myodaiji, 444 Okazaki, Japan

10. NeNuPo spectroscopy and femtosecond dynamics of neutral silver trimer

Doo Wan Boo, Yasushi Ozaki, and W. Carl Lineberger

JILA, University of Colorado, Campus Box 440, Boulder, CO 80309

11. Nitrogen Fixation by Transition Metal Oxo Complexes

Martin Beyer, Christian Berg, Gerhard Albert, Uwe Achatz, Stefan Joos, Gereon Niedner-Schatteburg, and Vladimir E. Bondybey

Institut für Physikalische und Theoretische Chemie, TU München, Lichtenbergstrasse 4, 85356 Garching, Germany

12. Differential NR/CR Spectra to Examine the Neutrals' Reactivity

Detlef Schröder, Christoph A. Schalley, and Helmut Schwarz

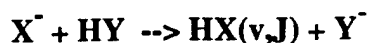
Department of Chemistry, Technical Univ. of Berlin, Strasse des 17 Juni 135, D-10623 Berlin, Germany

13. Collision Induced-dissociation dynamics of the enolic acetone cation: Evidence for non-ergodic behavior

Runzhi Zhao, Ronald Tosh, Anil Shukla, and Jean Futrell

Department of Chemistry, University of Delaware, Newark, DE 19716

14. Vibrational-rotational state selectivity in chemical reactions: Gas phase proton transfer reactions



Hiroto Tachikawa

Graduate School of Engineering, Hokkaido University, Sapporo 060, Japan

15. Application of REMPI to High pressure Mass Spectrometry: Polymerization of Propene Initiated by Charge Transfer from Benzene Radical Cation

M. Samy El-Shall, Y. B. Pithawalla, Junling Gao and M. Meot-Ner

Department of Chemistry, Virginia Commonwealth University, Richmond, VA 23284-2006

16. Fundamentals of CID with FT-ICR mass spectrometry: approaching time and collision-energy resolved mass spectrometry

Heinrich L. Sievers, and Hans-Friedrich Grützmacher

University of Bielefeld, Department of Chemistry, P.O.B. 100131, D-33501 Bielefeld, Germany

17. Thermochemistry of Reactive Intermediates from Collision-Induced Dissociation Experiments: The Heat of Formation of Cyclopropylidene and the Electron Affinity of Cyclopropyl Radical

Randal A. Seburg and Robert R. Squires

Purdue University, Department of Chemistry, West Lafayette, IN 47907-1393

18. Theoretical Modeling of Bimolecular Ion-Molecule Dynamics:

Ni⁺ Reactions with C₃H₈ and n-C₄H₁₀

Sung Soo Yi, James C. Weisshaar, M. R. A. Blomberg, and P. E. M. Siegbahn

Department of Chemistry, University of Wisconsin-Madison, Madison, Wisconsin
and Department of Physics, University of Stockholm, Stockholm, Sweden

19. Bimolecular Ion-Molecule Dynamics in Real Time: Co⁺ and Ni⁺ Reactions with C₃H₈ and n-C₄H₁₀

Sung Soo Yi, R. J. Noll, and James C. Weisshaar

Department of Chemistry, University of Wisconsin-Madison, Madison, Wisconsin

20. Ion-surface Reactions on Langmuir-Blodgett Films

Vicki H. Wysocki and Chungang Gu

Department of Chemistry, University of Arizona, Tucson, AZ 85721-0041

21. Two-Component Dissociation Dynamics of Energy Selected Methyl Formate Ions

Oleg A. Mazyar and Tomas Baer

Chemistry Department, University of North Carolina, Chapel Hill, NC 27599-3290

22. Low energy reactive and dissociative collisions of polyatomic ions and dimer ions with a solid surface

Grill and T. D. Märk

Institut für Ionenphysik, Universität Innsbruck, Technikerstrasse 25, 6020 Innsbruck, AUSTRIA

Conference Registration List

GASEOUS IONS, STRUCTURE, ENERG. & REACT.

04-Mar-9

LARS H ANDERSEN
JILA, UNIVERSITY OF COLORADO
BOX 440

BOULDER, CO 80309

Phone: 303-492-7839
Fax: 303-492-5235
Email: ANDERLH@JILA.COLORADO.EDU

Background: Academic
Prof Status: Professor

SCOTT L ANDERSON
UNIVERSITY OF UTAH
CHEMISTRY DEPARTMENT
2020 HENRY EYRING BLDG
SALT LAKE CITY, UT 84112

Phone: 801-585-7289
Fax: 801-581-8433
Email: ANDERSON@CHEMISTRY.UTAH.EDU

Background: Academic
Prof Status: Professor

VINCENT G ANICICH
JET PROPULSION LABORATORY
M/S 183-601
4800 OAK GROVE DRIVE
PASADENA, CA 91109

Phone: 818-354-2439
Fax: 818-393-4605
Email: VINCENT.G.ANICICH@JPL.NASA.GOV

Background: Academic
Prof Status: Research Scientist

PETER ARMENTROUT
UNIVERSITY OF UTAH
DEPT. OF CHEMISTRY
3402 HENRY EYRING BUILDING
SALT LAKE CITY, UT 84112

Phone: 801-581-7885
Fax: 801-581-8433
Email: ARMENTROUT@CHEMISTRY.UTAH.EDU

Background: Academic
Prof Status: Professor

TOM BAER
UNIV. OF NORTH CAROLINA AT CHAPEL HILL
DEPARTMENT OF CHEMISTRY

CHAPEL HILL, NC 27599-3290

Phone: 919-962-1580
Fax: 919-962-2388
Email: BAER@NET.CHEM.UNC.EDU

Background: Academic
Prof Status: Professor

THOMAS BALLY
UNIVERSITY OF FRIBOURG
INSTITUT DE CHIMIE PHYSIQUE
PEROLLES
FRIBOURG, CH-1700
SWITZERLAND

Phone: 41-26-3008705
Fax: 41-26-3009737
Email: THOMAS.BALLY@UNIFR.CH

Background: Academic
Prof Status: Professor

JESSE L BEAUCHAMP
CALIFORNIA INSTITUTE OF TECHNOLOGY
CALTECH 127-72

PASADENA, CA 91125

Phone: 818-395-6525
Fax: 818-568-8641
Email: JLBCHAMP@CCO.CALTECH.EDU

Background: Academic
Prof Status: Professor

STEVEN L BERNASEK
PRINCETON UNIVERSITY
DEPT OF CHEMISTRY
WASHINGTON RD & WILLIAM ST
PRINCETON, NJ 08544

Phone: 609 258 4986
Fax: 609 258 1593
Email: SBERNA@PUCC.PRINCETON.EDU

Background: Academic
Prof Status: Professor

SOLOMON BILILIGN
NORTH CAROLINA A & T STATE UNIVERSITY
1601 EAST MARKET STREET

Phone: 910-334-7646
Fax: 910-334-7283
Email: BILILIGN@GARFIELD.NCAT.EDU

Background: Academic
Prof Status: Professor

GREENSBORO, NC 27411

DOO WAN BOO
JILA, UNIVERSITY OF COLORADO
CAMPUS BOX 440

Phone: 303-492-7770
Fax: 303-492-8994
Email: DWBOO@JILA02.COLORADO.EDU

Background: Academic
Prof Status: Post Doctorate

BOULDER, CO 80309

WESTON T BORDEN
UNIVERSITY OF WASHINGTON
DEPARTMENT OF CHEMISTRY
BOX 351700
SEATTLE, WA 98195-1700

Phone: 206-543-6682
Fax: 206-685-8665
Email: BORDEN@CHEM.WASHINGTON.EDU

Background: Academic
Prof Status: Professor

MICHAEL T BOWERS
UNIVERSITY OF CALIFORNIA
DEPT. OF CHEMISTRY

Phone: 805-893-2893
Fax: 805-893-8703
Email: bowers@sbmm1.ucsb.edu

Background: Academic
Prof Status: Professor

SANTA BARBARA, CA 93106-9510

JOHN I BRAUMAN
STANFORD UNIVERSITY
DEPT. OF CHEMISTRY

Phone: 415-723-3023
Fax: 415-723-0259
Email: brauman@krypton.stanford.edu

Background: Academic
Prof Status: Professor

STANFORD, CA 94305-5080

SHEILA BUXTON
ROYAL SOCIETY OF CHEMISTRY
THOMAS GRAHAM HOUSE
SCIENCE PARK, MILTON ROAD
CAMBRIDGE, CB4 4WF
UK

Phone: 44-1223-432137
Fax: 44-1223-420247
Email: BUXTONS@RSC.ORG

Background: Academic
Prof Status: Other

JERRY B CABALO
UNIV. OF NORTH CAROLINA, CHAPEL HILL
DEPT. OF CHEMISTRY
CB#3290
CHAPEL HILL, NC 27599-3290

Phone: 919-962-1581
Fax: 919-962-2388
Email:

Background: Academic
Prof Status: Student

ORLANDO M CABARCOS
UNIVERSITY OF ILLINOIS
600 S. MATHEWS AVENUE
BOX 31-6
URBANA, IL 61801

Phone: 217-333-0863
Fax: 217-244-3186
Email: CABARCOS@ARIES.SCS.UIUC.EDU

Background: Academic
Prof Status: Student

A W CASTLEMAN, JR
PENNSYLVANIA STATE UNIVERSITY
152 DAVEY LABORATORY
DEPARTMENT OF CHEMISTRY
UNIVERSITY PARK, PA 16802

Phone: 814-865-7242
Fax: 814-865-5235
Email: AWC@PSUVM.PSU.EDU

Background: Academic
Prof Status: Professor

MICHAEL L CHABINYC
STANFORD UNIVERSITY
DEPT. OF CHEMISTRY

STANFORD, CA 94305-5080

Phone: 415-723-0316
Fax:
Email: CHABINML@CHEM.STANFORD.EDU

Background: Academic
Prof Status: Student

YU-JU CHEN
IOWA STATE UNIVERSITY
DEPARTMENT OF CHEMISTRY
117 WILHELM HALL
AMES, IA 50011

Phone: 515-294-3765
Fax: 515-294-5825
Email: YJCHEN@IASTATE.EDU

Background: Academic
Prof Status: Student

GRAHAM COOKS
PURDUE UNIVERSITY
DEPT. OF CHEMISTRY

WEST LAFAYETTE, IN 47907

Phone: 765-494-5263
Fax: 765-494-9421
Email: RGC@SAGE.CC.PURDUE.EDU

Background: Academic
Prof Status: Professor

HELEN DE CLERCQ
THE JOHNS HOPKINS UNIVERSITY
REMSEN HALL - CHEMISTRY DEPT.
3400 N. CHARLES ST.
BALTIMORE, MD 21218

Phone: 410-516-7454
Fax: 410-516-4679
Email: HELEN@JHUNIX.HCF.JHU.EDU

Background: Academic
Prof Status: Student

CHUCK H DEPUY
UNIVERSITY OF COLORADO
DEPT. OF CHEMISTRY & BIOCHEMISTRY
CAMPUS BOX 215
BOULDER, CO 80309-0440

Phone: 303-492-7652
Fax: 303-492-5894
Email: CHARLES.DEPUY@COLORADO.EDU

Background: Academic
Prof Status: Professor

CAROLINE E DESSENT
YALE UNIVERSITY
STERLING CHEMISTRY DEPARTMENT
P.O. BOX 208107
NEW HAVEN, CT 06520-8107

Phone: 203-432-3988
Fax: 203-432-6144
Email: DESSENT@CLUSTER.CHEM.YALE.EDU

Background: Academic
Prof Status: Student

ITZHAK DOTAN
THE OPEN UNIVERSITY OF ISRAEL
16 KLAUSMEN ST.
RAMAT-AVIV
TEL-AVIV,
ISRAEL

Phone: 972-3-6460420
Fax: 972-3-6460582
Email: IDOTAN@OUMAIL.OPENU.QC.IL

Background: Academic
Prof Status: Professor

RAINER A DRESSLER
PHILLIPS LABORATORY, USAF
PL/GPID, 29 RANDOLPH RD

Phone: 617-377-2332
Fax: 617-377-8202
Email: DRESSLER@PLH.AF.MIL

Background: Government
Prof Status: Research Scientist

HANSCOM AFB, MA 01731-3010

ROBERT C DUNBAR
CASE WESTERN RESERVE UNIVERSITY
CHEMISTRY DEPARTMENT
10900 EUCLID AVENUE
CLEVELAND, OH 44106-7078

Phone: 216 368-3712
Fax: 216-368-3006
Email: RCD@PO.CWRU.EDU

Background: Academic
Prof Status: Professor

ODILE M DUTUIT
CNRS
LPCR BAT 350
CENTRE UNIVERSITAIRE PARIS-SUD
ORSAY, 91405
FRANCE

Phone: 33-1-64-468122
Fax: 33-1-64-464118
Email: DUTUIT@LURE.U-PSUD.FR

Background: Academic
Prof Status: Research Director

M. SAMY EL-SHALL
VIRGINIA COMMONWEALTH UNIVERSITY
DEPT OF CHEMISTRY
1001 WEST MAIN STREET, BOX 2006
RICHMOND, VA 23284-9059

Phone: 804-828-3518
Fax: 804-828-8599
Email: SELSHALL@GEMS.VCU.EDU

Background: Academic
Prof Status: Professor

KENT M ERVIN
UNIVERSITY OF NEVADA, RENO
DEPARTMENT OF CHEMISTRY/216

Phone: 702-784-6676
Fax: 702-784-6804
Email: ERVIN@CHEM.UNR.EDU

Background: Academic
Prof Status: Professor

RENO, NV 89557-0020

JOHN W FARLEY
UNIV. OF NEVADA LAS VEGAS
DEPT. OF PHYSICS
4505 S. MARYLAND PARKWAY
LAS VEGAS, NV 89154

Phone: 702-895-3084
Fax: 702-895-0804
Email: FARLEY@NEVADA.EDU

Background: Academic
Prof Status: Professor

TOM FENN
IOWA STATE UNIVERSITY
DEPT. OF CHEMISTRY

Phone: 515-294-2048
Fax: 515-294-5825
Email: TFENN@IASTATE.EDU

Background: Academic
Prof Status: Post Doctorate

AMES, IA 50010

ELDON FERGUSON

3715 BIRCHWOOD DR. #15

BOULDER, CO 80304

Phone:

Fax:

Email: FERGUSON@CMDL3.CMDL.NOAA.GOV

Background: Academic

Prof Status: Professor

JEAN H FUTRELL

UNIVERSITY OF DELAWARE

DEPT. OF CHEMISTRY & BIOCHEMISTRY

105 BROWN LABORATORY

NEWARK, DE 19711

Phone: 302-831-1247

Fax: 302-831-6335

Email: JEAN.FUTRELL@MVS.UDEL.EDU

Background: Academic

Prof Status: Professor

JAMES F GARVEY

SUNY/BUFFALO

NSM COMPLEX

DEPT. OF CHEMISTRY

BUFFALO, NY 14260-3000

Phone: 716-645-6800

Fax: 716-645-6963

Email: GARVEY@UBVMS.CC.BUFFALO.EDU

Background: Academic

Prof Status: Professor

GREGORY I GELLENE

TEXAS TECH UNIVERSITY

DEPARTMENT OF CHEMISTRY & BIOCHEMISTRY

LUBBOCK, TX 79409-1061

Phone: 806-742-1994

Fax: 806-742-1289

Email: GELLENE@ALADDIN.CHEM.TTU.EDU

Background: Academic

Prof Status: Professor

GARY L GLISH

UNIVERSITY OF NORTH CAROLINA

DEPT. OF CHEMISTRY

CB# 3290

CHAPEL HILL, NC 27599-3290

Phone: 919-962-2303

Fax: 919-962-2388

Email: GLISH@UNC.EDU

Background: Academic

Prof Status: Professor

JOSEPH J GRABOWSKI

UNIVERSITY OF PITTSBURGH

DEPARTMENT OF CHEMISTRY

219 PARKMAN AVENUE

PITTSBURGH, PA 15260

Phone: 412-624-8632

Fax: 412-624-8552

Email: JOEG+@PITT.EDU

Background: Academic

Prof Status: Professor

EDWARD R GRANT

PURDUE UNIVERSITY

DEPARTMENT OF CHEMISTRY

WEST LAFAYETTE, IN 47907

Phone: 317-496-9006

Fax: 317-496-2512

Email: EGRANT@CHEM.PURDUE.EDU

Background: Academic

Prof Status: Professor

SUSAN T GRAUL

CARNEGIE MELLON UNIVERSITY

4400 FIFTH AVENUE

PITTSBURGH, PA 15213-2617

Phone: 412-268-1441

Fax: 412-268-1061

Email: SGRAUL@ANDREW.CMU.EDU

Background: Academic

Prof Status: Professor

VERENA GRILL
PURDUE UNIVERSITY
DEPARTMENT OF CHEMISTRY

WEST LAFAYETTE, IN 6020
AUSTRIA

Phone: 43-5125076247
Fax: 43-5125072932
Email: VERENA.GRILL@UIBK.AC.AT

Background: Academic
Prof Status: Post Doctorate

ERIC P GRIMSRUD
MONTANA STATE UNIVERSITY
DEPARTMENT OF CHEMISTRY

BOZEMAN, MT 59717-0001

Phone: 406-994-5418
Fax: 406-994-5407
Email: UCHEG@MSU.OSCS.MONTANA.EDU

Background: Academic
Prof Status: Professor

SCOTT V GRONERT
SAN FRANCISCO STATE UNIVERSITY
DEPARTMENT OF CHEMISTRY
1600 HOLLOWAY AVENUE
SAN FRANCISCO, CA 94132

Phone: 415-338-7709
Fax: 415-338-2384
Email: GRONERTS@LEWIS.SFSU.EDU

Background: Academic
Prof Status: Professor

JUERGEN GROTEMEYER
TECHNICAL UNIVERSITY COTTBUS
INST. FOR CHEM., BTU COTTBUS, FAKULTAT 1
LS PHYSIKALISCHE CHEMIE, AM TECHNOLOG. 1
KOLKWITZ, D-03099
GERMANY

Phone: 49-355-7841240
Fax: 49-355-7841245
Email: GROTE@CPCG01.COTEC.TU-COTTBUS.DE

Background: Academic
Prof Status: Professor

HANS GRUETZMACHER
UNIVERSITY OF BIELEFELD
FAKULTAT FUR CHEMIE
POSTFACH 10 01 31
BIELEFELD, D-33501
GERMANY

Phone:
Fax:
Email: GRUETZMACHER@CHEMA.UNI-BIELEFEL

Background: Academic
Prof Status: Professor

CHRISTOPHER M HADAD
OHIO STATE UNIVERSITY
DEPARTMENT OF CHEMISTRY
120 WEST 18TH AVENUE
COLUMBUS, OH 43210-1173

Phone: 614-688-3141
Fax: 614-292-1685
Email: HADAD.1@OSU.EDU

Background: Academic
Prof Status: Professor

WILLIAM L HASE
WAYNE STATE UNIVERSITY
DEPARTMENT OF CHEMISTRY
335 CHEMISTRY
DETROIT, MI 48202

Phone: 313-577-2694
Fax: 313-577-8822
Email: HASE@SUN.CHEM.WAYNE.EDU

Background: Academic
Prof Status: Professor

PETER M HIERL
UNIVERSITY OF KANSAS
CHEMISTRY DEPARTMENT

LAWRENCE, KS 66045

Phone: 913-864-3019
Fax: 913-864-5396
Email: PHIERL@CAC03.CHEM.UKANS.EDU

Background: Academic
Prof Status: Professor

TIMOTHY L HOFFMANN
UNIVERSITY OF WATERLOO
CHEMISTRY DEPT.

WATERLOO, ON N2L 3G1
CANADA

Phone: 519-885-1211
Fax: 519-885-6388
Email: T2HOFFMA@UWATERLOO.CA

Background: Academic
Prof Status: Student

JOHN HOLMES
UNIVERSITY OF OTTAWA
DEPT. OF CHEMISTRY

OTTAWA, ON K1N 6N5
CANADA

Phone:
Fax:
Email: JHOLMES@OREO.CHEM.UOTTAWA.CA

Background: Academic
Prof Status: Professor

CARLETON J HOWARD
NOAA AERONOMY LAB
325 BROADWAY R/E/AL2

BOULDER, CO 80303-3328

Phone: 303-497-5820
Fax:
Email: HOWARD@AL.NOAA.GOV

Background: Government
Prof Status: Research Scientist

SOPHIE HOYAU
CNRS AND ECOLE POLYTECHNIQUE
DCMR-ECOLE POLYTECHNIQUE

PALAISEAU CE, 91128
FRANCE

Phone: 33-169-333408
Fax: 33-169-333010
Email: SOPHIE@BACH.POLYTECHNIQUE.FR

Background: Academic
Prof Status: Student

JAN HRUSAK
ACADEMY OF SCIENCES
INST. PHYS. CHEM. CZECH ACADEMY SCIENCES
DOLEJSKOVA 3
PRAGUE, CZ-182 83
CZECH. REPUBLIC

Phone:
Fax:
Email: HRUSAK@JH-INST.CAS.CZ

Background: Academic
Prof Status: Research Scientist

JUN HU
PURDUE UNIVERSITY
DEPT. OF CHEMISTRY

WEST LAFAYETTE, IN 47907-1393

Phone: 317-494-7359
Fax: 317-494-0239
Email: JUN@GLOW.CHEM.PURDUE.EDU

Background: Academic
Prof Status: Student

L. GREGORY HUEY
NOAA
AERONOMY LABORATORY

BOULDER, CO 80303-3328

Phone:
Fax:
Email: GHUEY@AL.NOAA.GOV

Background: Academic
Prof Status: Professor

ANDREAS J ILLIES
AUBURN UNIVERSITY
DEPARTMENT OF CHEMISTRY

AUBURN, AL 36849-5312

Phone: 334-844-6968
Fax: 334-844-6959
Email: ILLEAJ@MAIL.AUBURN.EDU

Background: Academic
Prof Status: Professor

MARILYN E JACOX
NATIONAL INST. OF STANDARDS & TECHNOLOGY
OPTICAL TECHNOLOGY

GAITHERSBURG, MD 20899

Phone: 301-975-2547
Fax: 301-975-3038
Email: MARILYN.JACOX@NIST.GOV

Background: Government
Prof Status: Research Scientist

MARK JOHNSON
YALE UNIVERSITY - CHEMISTRY
P.O. BOX 208107
225 PROSPECT STREET
NEW HAVEN, CT 06520-8107

Phone: 203-432-5226
Fax: 203-432-6144
Email: johnson@cluster.chem.yale.edu

Background: Academic
Prof Status: Professor

STEVEN KASS
UNIVERSITY OF MINNESOTA
DEPT OF CHEM, KOLTHOFF & SMITH HALLS
207 PLEASANT STREET, S.E.
MINNEAPOLIS, MN 55455-0431

Phone: 612-625-7513
Fax: 612-626-7541
Email: KASS@CHEM.UMN.EDU

Background: Academic
Prof Status: Professor

HELMUT KECK
UNI DUESSELDORF
INST.F. ANORG. CHEMIE I
UNIVERSITAETSSTR. 1
DUESSELDORF, NRW D-40225
GERMANY

Phone: 49-211-8112199
Fax: 49-211-8112287
Email: KECK@CLIO.RZ.UNI-DUESSELDORF.DE

Background: Academic
Prof Status: Research Director

JEFFREY W KEISTER
UNIVERSITY OF NORTH CAROLINA
CHAPEL HILL CHEMISTRY DEPARTMENT
VENABLE HALL, CB#3290
CHAPEL HILL, NC 27599-3290

Phone: 919-962-1581
Fax: 919-962-2388
Email: JWKEISTE@GIBBS.OIT.UNC.EDU

Background: Academic
Prof Status: Student

BERK KNIGHTON
MONTANA STATE UNIVERSITY
DEPARTMENT OF CHEMISTRY

BOZEMAN, MT 59717

Phone: 406-994-5420
Fax: 406-994-5407
Email: UCHBK@EARTH.OSCS.MONTANA.EDU

Background: Academic
Prof Status: Professor

ILONA KRETZSCHMAR
TECHNISCHE UNIVERSITAET BERLIN
TU-BERLIN, SEKR. C4, IOC
STRASSE DES 17, JUNI 135
BERLIN, D-10623
GERMANY

Phone: 49-30-31426543
Fax: 29-30-31421101
Email: ILONA@WWW.CHEM-TU.BERLIN.DE

Background: Academic
Prof Status: Student

DIETMAR KUCK
UNIVERSITY OF BIELEFELD
POSTFACH 30 01 31

BIELEFELD, D-33501
GERMANY

Phone: 49-5211062060
Fax: 49-5211066146
Email: KUCK@CHEMA.UNI-BIELEFELD.DE

Background: Academic
Prof Status: Professor

VALERY LE PAGE
UNIVERSITY OF COLORADO
DEPT. OF CHEMISTRY

BOULDER, CO 80309-0001

Phone: 303-492-7396
Fax: 303-492-5894
Email: LEPAGE@COLORADO.EDU

Background: Academic
Prof Status: Post Doctorate

SYDNEY LEACH
OBSERVATOIRE DE PARIS-MEUDON
DEPT. ATOMES ET MOLECULES EN ASTROPHYS.
5, PLACE JULES JANSSEN
MEUDON CEDEX, 92195
FRANCE

Phone: 33-1-45077561
Fax: 33-1-45077100
Email: LEACH@OBSM.FR

Background: Academic
Prof Status: Research Director

JULIE A LEARY
UNIVERSITY OF CALIFORNIA, BERKELEY
COLLEGE OF CHEMISTRY
410 LATIMER HALL
BERKELEY, CA 94720

Phone: 510-643-6499
Fax: 510-642-9295
Email: LEARY@GARNET.BERKELEY.EDU

Background: Academic
Prof Status: Professor

CARLITO B LEBRILLA
UNIVERSITY OF CALIFORNIA, DAVIS
CHEMISTRY DEPARTMENT

DAVIS, CA 95616

Phone: 916-752-6364
Fax: 916-752-8995
Email: CBLEBRILLA@UCDAVIS.EDU

Background: Academic
Prof Status: Professor

SANG-WON LEE
CALIFORNIA INSTITUTE OF TECHNOLOGY
MAIL STOP 127-72
CALTECH
PASADENA, CA 91125

Phone: 818-395-2778
Fax: 818-585-9021
Email: LSW@CCO.CALTECH.EDU

Background: Academic
Prof Status: Student

DALE J LEVANDIER
ORION INTERNATIONAL TECHNOLOGIES, INC.
AIR FORCE PHILLIPS LAB., PL/GPOS
29 RANDOLPH RD.
HANSCOM AFB, MA 01731-3010

Phone: 617-377-2331
Fax: 617-377-8202
Email: LEVANDIER@PLH.AF.MIL

Background: Government
Prof Status: Research Scientist

CHAVA LIFSHITZ
HEBREW UNIVERSITY OF JERUSALEM
DEPT. OF PHYSICAL CHEMISTRY

JERUSALEM, 91904
ISRAEL

Phone: 972-2-6585866
Fax: 972-2-6522472
Email: CHAVALU@VMS.HUJI.AC.IL

Background: Academic
Prof Status: Professor

WERNER LINDINGER
UNIVERSITY OF INNSBRUCK
INSTITUTE OF IONENPHYSIK
TECHNIKERSTR.25
INNSBRUCK, 6020
AUSTRIA

Phone: 43-512-5076242
Fax: 43-5125072932
Email: WERNER.LINDINGER@UIBK.AC.AT

Background: Academic
Prof Status: Professor

W. CARL LINEBERGER
JILA
UNIVERSITY OF COLORADO
DEPT. OF CHEM & BIOCHEM, CAMPUS BOX 440
BOULDER, CO 80309-0440

Phone: 303-492-7834
Fax: 303-492-8994
Email: WCL@JILA.COLORADO.EDU

Background: Academic
Prof Status: Professor

CARLOS MANZANARES
BAYLOR UNIVERSITY
DEPARTMENT OF CHEMISTRY

Phone: 817-755-3311
Fax: 817-755-2403
Email: CARLOS_MANZANARES@BAYLOR.EDU

Background: Academic
Prof Status: Professor

WACO, TX 76798

STEFAN MARK
TECHNICAL UNIVERSITY CHEMNITZ-ZWICKAU
INSTITUT FUER PHYSIK
REICHENHAINER STR. 70
CHEMNITZ, SACHSEN D-09107
GERMANY

Phone: 49-371-5313106
Fax: 49-371-5313103
Email: S.MARK@PHYSIK.TU-CHEMNITZ.DE

Background: Academic
Prof Status: Student

MICHAEL MAUTNER
UNIV. OF CANTERBURY
DEPT. OF CHEMISTRY

Phone:
Fax:
Email: MAUTNER@TUI.LINCOLN.AC.NZ

CHRISTCHURCH, 8001
NEW ZEALAND

Background: Academic
Prof Status: Professor

PAUL M MAYER
RESEARCH SCHOOL OF CHEMISTRY
AUSTRALIAN NATIONAL UNIVERSITY

Phone: 61-6-2493771
Fax: 61-6-2490750
Email: PAULM@RSCQC2.ANU.EDU.AU

CANBERRA, ACT 0200
AUSTRALIA

Background: Academic
Prof Status: Post Doctorate

OLEG A MAZYAR
UNIVERSITY OF NORTH CAROLINA - CH
CHEMISTRY DEPT.
CB #3290
CHAPEL HILL, NC 27599-3290

Phone: 919-962-1581
Fax: 919-962-2388
Email: MAZYAR@GIBBS.OIT.UNC.EDU

Background: Academic
Prof Status: Student

RUTH MCDIARMID
NIH
5 CENTER DRIVE
MSC 0510
BETHESDA, MD 20892-0510

Phone: 301-496-6475
Fax: 301-496-0825
Email: RUT@NIH.GOV

Background: Government
Prof Status: Research Scientist

MURRAY J MCEWAN
UNIVERSITY OF CANTERBURY
DEPT. OF CHEMISTRY

Phone: 64-3-3642875
Fax: 64-3-3642110
Email: m.mcewan@chem.canterbury.ac.nz

CHRISTCHURCH,
NEW ZEALAND

Background: Academic
Prof Status: Professor

SCOTT A MCLUCKEY
OAK RIDGE NATIONAL LABORATORY
ANALYTICAL CHEMISTRY DIVISION

OAK RIDGE, TN 37831-6120

Phone: 423-574-2848
Fax: 423-576-8559
Email: MCLUCKEYSA@ORNL.GOV

Background: Academic
Prof Status: Professor

TERRANCE B MCMAHON
UNIVERSITY OF WATERLOO
DEPARTMENT OF CHEMISTRY

WATERLOO, ON N2L 3G1
CANADA

Phone: 519-888-4591
Fax: 519-746-0435
Email: MCMAHON@WATSCI.UWATERLOO.CA

Background: Academic
Prof Status: Professor

RICARDO B METZ
UNIVERSITY OF MASSACHUSETTS-AMHERST
DEPT. OF CHEMISTRY
BOX 34510, LEDERLE GRC
AMHERST, MA 01003-4510

Phone: 413-545-6089
Fax: 413-545-4490
Email: RBMETZ@CHEMISTRY.UMASS.EDU

Background: Academic
Prof Status: Professor

JOHN C MILLER
OAK RIDGE NATIONAL LABORATORY
P.O. BOX 2008, BLDG. 4500S
MS-6125
OAK RIDGE, TN 37831-6125

Phone: 423-574-6239
Fax: 423-576-4407
Email: MILLERJC@ORNL.GOV

Background: Government
Prof Status: Research Director

THOMAS H MORTON
UNIVERSITY OF CALIFORNIA, RIVERSIDE
DEPT. OF CHEMISTRY

RIVERSIDE, CA 92521-0403

Phone: 909-787-4735
Fax: 909-787-4713
Email: MORTON@CITRUS.UCR.EDU

Background: Academic
Prof Status: Professor

KLAUS MULLER-DETHLEFS
THE UNIVERSITY OF YORK
DEPARTMENT OF CHEMISTRY
HESLINGTON
YORK, YO1 5DD
UK

Phone: 44-1904434526
Fax: 44-1904434527
Email: KMD6@YORK.AC.UK

Background: Academic
Prof Status: Professor

GEREON NIEDNER-SCHATTEBURG
TECHNISCHE UNIV MUNCHEN
INST FUR PHYSIKALISCHE UND THEORETISCHE
CHEMIE, LICHTENBERGSTRASSE 4
GARCHING, BAVARIA 85747
GERMANY

Phone: 49-89-28913417
Fax: 49-89-28913418
Email: GEREON@ANIONIX.PHYS.CHEMIE.TU-MU

Background: Academic
Prof Status: Research Scientist

GILLES OHANESSIAN
CNRS AND ECOLE POLYTECHNIQUE
DCMR-ECOLE POLYTECHNIQUE

PALaiseau, CEDEX 91128
FRANCE

Phone: 33-169333503
Fax: 33-169333010
Email: GILLES@BACH.POLYTECHNIQUE.FR

Background: Academic
Prof Status: Research Scientist

MITCHIO OKUMURA
CALIFORNIA INSTITUTE OF TECHNOLOGY
CHEMISTRY 127-72

PASADENA, CA 91125

Phone: 818-395-6557
Fax: 818-568-8824
Email: MO@CCO.CALTECH.EDU

Background: Academic
Prof Status: Professor

YASUSHI OZAKI
JILA, UNIVERSITY OF COLORADO
CAMPUS BOX 440

BOULDER, CO 80309

Phone: 303-492-7770
Fax: 303-492-5235
Email: OZAKIY@JILA02.COLORADO.EDU

Background: Academic
Prof Status: Research Scientist

RANDALL E PEDDER
ABB EXTREL
QUADRUPOLE MASS SPECTOMETRY
575 EPSILON DRIVE
PITTSBURGH, PA 15238-2816

Phone: 412-967-5774
Fax: 412-963-6578
Email: RANDY@EXTREL.COM

Background: Industrial
Prof Status: Research Scientist

YEZDI B PITHAWALLA
VIRGINIA COMMONWEALTH UNIVERSITY
DEPARTMENT OF CHEMISTRY
1001, WEST MAIN STREET
RICHMOND, VA 23284-2006

Phone: 804-828-7503
Fax:
Email: CHE3YBP@ATLAS.VCU.EDU

Background: Academic
Prof Status: Student

FRANCOIS PIUZZI
CEA
CEA-SACLAY DRECAM-SPAM BAT 522

GIF SUR VETTE, ESSONNE 91191
FRANCE

Phone: 33-16-9083079
Fax: 33-16-9088707
Email: PIUZZI@OLIVE.SACLAY.CEA.FR

Background: Government
Prof Status: Research Scientist

VITALII A POKROVSKII
ETH ZENTRUM
DEPT. ERDWISSENSCHAFTEN NO
SONNEGGSTR. 5
ZURICH, CH-8092
SWITZERLAND

Phone: 41-1-6326803
Fax: 41-1-6321179
Email: POKROVSKII@ERDW.ETHZ.CH

Background: Academic
Prof Status: Research Scientist

LYNMARIE A POSEY
VANDERBILT UNIVERSITY
DEPARTMENT OF CHEMISTRY
BOX 1822 STATION B
NASHVILLE, TN 37235

Phone: 615-322-4049
Fax: 615-343-0384
Email: POSEYLA@CTRVAX.VANDERBILT.EDU

Background: Academic
Prof Status: Professor

ALAN R POTTS
UNIV. OF NORTH CAROLINA-CHAPEL HILL
DEPT. OF CHEMISTRY
CB#3290
CHAPEL HILL, NC 27599

Phone: 919-962-1581
Fax: 919-962-2388
Email: APOTTS@GIBBS.OIT.UNC.EDU

Background: Academic
Prof Status: Student

KIM PRATHER
UNIVERSITY OF CALIFORNIA
DEPARTMENT OF CHEMISTRY

RIVERSIDE, CA 92521

Phone:
Fax:
Email: PRATHER@CITRUS.UCR.EDU

Background: Academic
Prof Status: Other

JUN QIAN
UNIVERSITY OF UTAH
CHEMISTRY DEPARTMENT

SALT LAKE CITY, UT 84112

Phone: 801-581-6644
Fax: 801-581-8433
Email: JQIAN@ATLAS.CHEM.UTAH.EDU

Background: Academic
Prof Status: Post Doctorate

DOUGLAS RAY
PACIFIC NORTHWEST LAB.
P.O. BOX 999 K2-14

RICHLAND, WA 99352

Phone: 509-375-2104
Fax: 509-375-6442
Email: D_RAY@PNL.GOV

Background: Government
Prof Status: Research Scientist

DOUGLAS P RIDGE
UNIVERSITY OF DELAWARE
DEPT OF CHEMISTRY AND BIOCHEMISTRY

NEWARK, DE 19711

Phone: 302-8311197
Fax:
Email: DOUGR@BRAHAMS.UDEL.EDU

Background: Academic
Prof Status: Professor

DONALD E RIEDERER
UNIVERSITY OF MISSOURI
DEPT. OF CHEMISTRY
123 CHEMISTRY BUILDING
COLUMBIA, MO 65211

Phone: 573-882-1735
Fax: 573-882-2754
Email: CHEMDER@SHOWME.MISSOURI.EDU

Background: Academic
Prof Status: Professor

JOSE M RIVEROS
UNIVERSITY OF SAO PAULO
INSTITUTE OF CHEMISTRY
CAIXA POSTAL 26077
SAO PAULO- CEP, 05599-970
BRAZIL

Phone: 55-11-818-3888
Fax: 55-11-815-5579
Email: JMRNIGRA@QUIM.IQ.USP.BR

Background: Academic
Prof Status: Professor

MARY T RODGERS
UNIVERSITY OF UTAH
DEPARTMENT OF CHEMISTRY
HENRY EYRING BUILDING
SALT LAKE CITY, UT 84112

Phone: 801-296-2019
Fax: 801-581-8433
Email: RODGERS@CHEMISTRY.UTAH.EDU

Background: Academic
Prof Status: Post Doctorate

MATTHEW F RYAN
PURDUE UNIVERSITY CALUMET
DEPT. OF CHEMISTRY AND PHYSICS
2200 169TH STREET
HAMMOND, IN 46363

Phone: 219-989-2626
Fax: 219-989-2130
Email: RYANMF@NWI.CALUMET.PURDUE.EDU

Background: Academic
Prof Status: Professor

STEPHAN SCHLEMMER
TECHNICAL UNIVERSITY OF CHEMNITZ
DEPARTMENT OF PHYSICS

CHEMNITZ, SAXONY 09107
GERMANY

Phone: 49-371-5313049
Fax: 49-371-5313103
Email: SCHLEMMER@PHYSIK.TU-
CHEMNITZ.DE

Background: Academic
Prof Status: Research Scientist

DETLEF SCHROEDER
TECHNICAL UNIVERSITY BERLIN
TECHNISCHE UNIVERSITAET BERLIN
SEKR. C4
BERLIN, D-10623
GERMANY

Phone: 49-30-31426546
Fax: 49-30-31421102
Email: DF@WWW.CHEM.TU-BERLIN.DE

Background: Academic
Prof Status: Research Scientist

HELMUT SCHWARZ
TECHNISCHE UNIVERSITAT BERLIN
INSTITUT FUR ORGANISCHE CHEMIE
FACH. 5 CHEMIE, STRASSE DES 17. JUNI 135
BERLIN, D-10623
GERMANY

Phone: 49-30-31423483
Fax: 49-30-31421102
Email: SCHW0531@ZRZSP5.CHEM.TU-
BERLIN.D

Background: Academic
Prof Status: Professor

RANDAL A SEBURG
PURDUE UNIVERSITY
DEPARTMENT OF CHEMISTRY
1393 BROWN BUILDING
WEST LAFAYETTE, IN 47907

Phone: 317-494-7359
Fax: 317-494-0239
Email: SEBURG@GLOW.CHEM.PURDUE.EDU

Background: Academic
Prof Status: Post Doctorate

MARCELO SENA
UNIVERSITY OF SAO PAULO
INSTITUTE OF CHEMISTRY
CAIXA POSTAL 26077
SAO PAULO, SP 05599-970
BRAZIL

Phone: 55-118183852
Fax: 55-118155579
Email: MSENSA@QUIM.IQ.USP.BR

Background: Academic
Prof Status: Student

AKIRA SHIMIZU
HOKKAIDO UNIVERSITY
GRADUATE SCHOOL OF ENGINEERING
KITA-KU
SAPPORO, 060
JAPAN

Phone: 81-11-706-6577
Fax: 81-11-706-7882
Email: AS@PC.CFA.HOKUDAI.AC.JP

Background: Academic
Prof Status: Research Scientist

SEUNG KOO SHIN
UNIVERSITY OF CALIFORNIA, SANTA BARBARA
DEPT OF CHEMISTRY

SANTA BARBARA, CA 93106

Phone: 805-893-2339
Fax: 805-893-4120
Email: SEUNG@SBMM1.UCSB.EDU

Background: Academic
Prof Status: Professor

HEINRICH L SIEVERS
UNIVERSITY OF BIELEFELD
DEPT. OF CHEMISTRY
POB 100131
BIELEFELD, NRW D-33501
GERMANY

Phone: 49-521-106206
Fax: 49-521-106614
Email: SIEVERS@CHEMA.UNI-BIELEFELD.DE

Background: Academic
Prof Status: Post Doctorate

GLENN SMITH
UNIV. OF CALIFORNIA, BERKELEY
DEPT. OF CHEMISTRY

BERKELEY, CA 94720

Phone: 501-642-0701
Fax: 501-642-9295
Email: GASMITH@UCLINK4.BERKELEY.EDU

Background: Academic
Prof Status: Student

THOMAS G SPENCE
VANDERBILT UNIVERSITY
DEPARTMENT OF CHEMISTRY
BOX 1822, STATION B
NASHVILLE, TN 37235

Phone: 615-322-6499
Fax:
Email: SPENCETG@CTRVAX.VANDERBILT.EDU

Background: Academic
Prof Status: Student

ROBERT R SQUIRES
PURDUE UNIVERSITY
DEPT. OF CHEMISTRY
1393 BROWN BUILDING
WEST LAFAYETTE, IN 47907

Phone: 317-494-7322
Fax: 317-494-0239
Email: SQUIRES@VM.CC.PURDUE.EDU

Background: Academic
Prof Status: Professor

LEE S SUNDERLIN
NORTHERN ILLINOIS UNIVERSITY
DEPARTMENT OF CHEMISTRY

DEKALB, IL 60115

Phone: 815-753-6870
Fax: 815-753-4802
Email: SUNDER@MARILYN.CHEM.NIU.EDU

Background: Academic
Prof Status: Professor

HIROTO TACHIKAWA
HOKKAIDO UNIVERSITY
GRADUATE SCHOOL OF ENGINEERING
KITA-KU
SAPPORO, 060
JAPAN

Phone: 81-11-706-7650
Fax: 81-11-706-7897
Email: HIROTO@E2.HINES.HOKUDAI.AC.JP

Background: Academic
Prof Status: Research Scientist

PAIVI H TOMPERI
UNIV. OF NORTH CAROLINA AT CHAPEL HILL
DEPT. OF CHEMISTRY

CHAPEL HILL, NC 27599-3290

Phone: 919-962-1581
Fax: 919-962-2388
Email: PTOMPERI@GIBBS.OIT.UNC.EDU

Background: Academic
Prof Status: Student

DARRYL S TONNER
UNIVERSITY OF WATERLOO
DEPARTMENT OF CHEMISTRY
200 UNIVERSITY AVENUE WEST
WATERLOO, ON N2L 3G1
CANADA

Phone: 519-885-1211
Fax: 519-746-0435
Email: DSTONNER@WATSCI.UWATERLOO.CA

Background: Academic
Prof Status: Student

ALBERT A VIGGIANO
PHILLIPS LABORATORY, GPID
GEOPHYSICS DIRECTORATE
29 RANDOLPH ROAD
HANSCOM AFB, MA 01831-3010

Phone: 617-377-4028
Fax: 617-377-1148
Email: VIGGIARO@PLH.AF.MIL

Background: Government
Prof Status: Research Scientist

COREY J WEINHEIMER
UNIVERSITY OF ILLINOIS
600 S. MATHEWS AVENUE
BOX 48-6
URBANA, IL 61801

Phone: 217-333-0863
Fax: 217-244-3186
Email: WEINHEIM@ARIES.SCS.UIUC.EDU

Background: Academic
Prof Status: Student

JAMES C WEISSHAAR
UNIV. OF WISCONSIN-MADISON
DEPT OF CHEMISTRY
1101 UNIVERSITY AVENUE
MADISON, WI 53706-1396

Phone: 608-262-0266
Fax: 608-262-9918
Email: WEISSHAAR@CHEM.WISC.EDU

Background: Academic
Prof Status: Professor

PAUL G WENTHOLD
UNIV OF COLORADO- JILA
CAMPUS BOX 440

Phone: 303-492-7768
Fax: 303-492-5235
Email: WENTHOLD@EEFUS.COLORADO.EDU

BOULDER, CO 80309

Background: Academic
Prof Status: Post Doctorate

CHRYS WESEMIOTIS
THE UNIVERSITY OF AKRON
DEPARTMENT OF CHEMISTRY

Phone: 330-972-7699
Fax: 330-972-7370
Email: WESEMIOTIS@UAKRON.EDU

AKRON, OH 44325-3601

Background: Academic
Prof Status: Professor

EVAN R WILLIAMS
UNIVERSITY OF CALIFORNIA AT BERKELEY
DEPT OF CHEMISTRY
419 LATIMER HALL #1460
BERKELEY, CA 94720-1460

Phone: 510-643-7161
Fax: 510-642-8369
Email: ERW@GARNET.BERKELEY.EDU

Background: Academic
Prof Status: Professor

SKIP WILLIAMS
PHILLIPS LABORATORY
GPID
29 RANDOLPH ROAD
HANSCOM AFB, MA 01731-3010

Phone: 617-377-2076
Fax: 617-377-8202
Email: SKIPW@PLH.AF.MIL

Background: Government
Prof Status: Research Scientist

MING W WONG
THE UNIVERSITY OF QUEENSLAND
DEPT. OF CHEMISTRY

Phone: 61-733653829
Fax: 61-733654299
Email: WONG@CHEM.CHEMISTRY.UQ.OZ.AU

BRISBANE, QLD 4072
AUSTRALIA

Background: Academic
Prof Status: Research Scientist

VICKI H WYSOCKI
UNIVERSITY OF ARIZONA
1306 E. UNIVERSITY AVENUE
BOX 21-0041
TUCSON, AZ 85721

Phone: 520-621-2628
Fax: 520-621-8407
Email: VWYSOCKI@U.ARIZONA.EDU

Background: Academic
Prof Status: Research Scientist

THOMAS WYTENBACH
UNIVERSITY OF CALIFORNIA, SANTA BARBARA
DEPARTMENT OF CHEMISTRY

SANTA BARBARA, CA 93106

Phone: 805-893-2673
Fax: 805-893-8703
Email: WYTENBACH@SBMM1.UCSB.EDU

Background: Academic
Prof Status: Research Scientist

SUNGSOO YI
UNIVERSITY OF WISCONSIN - MADISON
1101 UNIVERSITY AVENUE

MADISON, WI 53706-1322

Phone: 608-262-0219
Fax: 608-262-9918
Email: SUNGSOO@CHEM.WISC.EDU

Background: Academic
Prof Status: Student

ALLA N ZELENYUK
UNIV. OF NORTH CAROLINA, CHAPEL HILL
DEPT. OF CHEMISTRY
CB #3290
CHAPEL HILL, NC 27599-3290

Phone: 919-962-1581
Fax: 919-962-2388
Email: ALLA@EMAIL.UNC.EDU

Background: Academic
Prof Status: Post Doctorate