

Curriculum Vitae
G. Barney Ellison

Address: Department of Chemistry and Biochemistry
University of Colorado
Boulder, CO 80309-0215

Date of Birth: Feb. 2, 1943 Citizenship: U.S.A.

Positions: University of Colorado
Assistant Professor 1977 - 1983
Associate Professor 1983 - 1988
Professor 1988 - present

Sabbatical Leave 1985-1986
Dept. of Chemistry (Josef Michl); Univ. of Utah
Theoretical Chemistry Group (Thom Dunning); Argonne National Laboratory

Sabbatical Leave 1999-2000
Pacific Northwest Nat'l Laboratory's Environmental Molecular Sciences
Laboratory (Oct. '99); Univ. of Leeds, Cambridge Univ, Univ. of East Anglia,
Oxford Univ. (Dec. '99); UCLA, USC (April-May, '00)

Sabbatical Leave 2006-2007
California Institute of Technology, Dec. 2006; Pacific Northwest Nat'l
Laboratory's Environmental Molecular Sciences Laboratory (Jan., 2007);
Princeton Univ. (Feb. 2007); Yale Univ. (March, 2007); Univ. of
Wollengong/ Australia, April 2007

Education:

Undergraduate: Trinity College 1961-1965
Hartford, CT 06106
Major: Pre-medical
Graduate: Yale University
Department of Pharmacology 1965-1967
Department of Chemistry 1968-1974
Dissertation: "Electronic States of Olefins"
Prof. Kenneth B. Wiberg, Director December, 1974

Postdoctoral

Appointment: Department of Chemistry 1975-1977
Joint Institute for Laboratory Astrophysics
University of Colorado
Boulder, CO 80309-0440
(with Professors William P. Reinhardt and W. Carl Lineberger)

Awards and Professional Societies:

- USPHS Trainee 1965-1967
- NIH Predoctoral Fellowship 1968-1972
- Wolfgang Prize, Yale University 1975
- Fellow of the Alfred P. Sloan Foundation 1979-1981
- John Simon Guggenheim Fellow 1999-2000
- American Chemical Society
- American Physical Society

G. B. Ellison, Current and Pending Support

Current Research Support

1. National Science Foundation (Organic; Bimolecular Dynamics), *A Molecular Picture for Biomass Burning*, (CHE-1112466) \$ 820,000. (Prof. John W. Daily, Mechanical Engineering, Prof. John F. Stanton Co-PIs). [8/1/11 —7/31/14]
2. National Renewable Energy Laboratory, *Laser Photo-Ionization Time-of-Flight Mass Spectrometry (TOFMS) and Matrix Isolation Spectroscopy (MIS)* AWARD NO.: XGV-1-11458-01 1548805 / 13002667: \$43,446 (total to date: \$68,446)
1548806 / 13002668: \$30,000 (total to date: \$45,000) END DATE EXTENDED TO: 9/30/2013

Pending

1. National Science Foundation (Organic; Bimolecular Dynamics), *Organic Radicals in Biomass Decomposition: Mechanisms & Dynamics*, (CHE-0848606) \$ 606,109 (Prof. John W. Daily, Mechanical Engineering, Co-PI). [6/1/12 —5/31/15]

Students and Postdoctoral Fellows of **G. Barney Ellison**

1. Timothy Scott Zwier, "Nascent Product Vibrational State Distributions in Gas-Phase Ion-Molecule Reactions," PhD in 1981. Current address:
Professor of Chemistry
Department of Chemistry
Purdue University
1393 Brown Laboratory
West Lafayette, IN 47907-1393
2. James Carl Weisshaar, Postdoctoral Associate in 1980. Current address:
Kellett Professor of Chemistry
Department of Chemistry
University of Wisconsin
1101 University Avenue
Madison, WI 53706
3. Mark Allan Smith, "Infrared Chemiluminescence and Neutral Products Identification Studies for the Determination of Ion-Molecule Reaction Dynamics," PhD in 1982. Current address:
Professor and Chair of Chemistry
Department of Chemistry
University of Arizona
Tucson, AZ 85721
4. Michael A. Duncan, Postdoctoral Associate in 1982-1983. Current address:
Distinguished Professor and Senior Editor
J. Phys. Chem.
Department of Chemistry
University of Georgia
Athens, GA 30602
5. Harold Benton Ellis Jr., "Laser Photoelectron Spectroscopy of Nitroxide, Cyanomethide, Cyanoethide and Isocyanomethide Anions," PhD in 1983. Current address:
Ball Aerospace Systems Group
PO Box 1062 CO-3
Boulder, CO 80306-1062
6. John Morgan Oakes, "The Photoelectron Spectroscopy of Small Organic Anions and the Hydroperoxyl Anion," PhD in 1984. Current address.
Marian College
45 S. National Avenue
Fond Du Lac, WI 54935-4699
7. Dr. Steven Robert Kass, Postdoctoral Associate in 1984-1985. Current address:
Professor of Chemistry
Department of Chemistry
University of Minnesota

Minneapolis, MN 55455

8. Mark Robert Nimlos, "The Photoelectron Spectroscopy of Negative Ions," PhD in 1986. Current address:
Center for Renewable Chemical
Technologies & Materials
NREL
1617 Cole Blvd.
Golden, CO 80401
9. Sean Moran, "Photoelectron Spectroscopy of Carbanions, Sulfur Anions, and Boron Hydride Anions," PhD in 1988. current address:
Lecturer
Department of Chemistry
San Diego State University
San Diego, CA 92093
10. Mark Edward Jones, "Collection and Characterization of the Neutral Products of Gas Phase Ion-Molecule Reactions," PhD in 1988. current address:
1776 Building
Dow Chemical Co.
Midland, MI 48674
11. Charles Thomas Wickham-Jones, Postdoctoral Associate in 1986-1988. current address:
Mathematica Inc.
Oxford OX1 3QZ
UK
12. Daniel Craig Cowles, "Photoelectron Spectroscopy of Nitrene Anions," PhD in 1991. current address:
Air Liquide America Corp.
1219 Abrams Road, # 200
Richardson, TX 75081
13. Michael James Travers, "Negative Ion Photoelectron Spectroscopy of Small Organic Molecules," PhD in 1994. Current address:
Department of Chemistry
Colorado College
Colorado Springs, CO 80903-3298
14. Henry William Rohrs, "Fourier Transform Spectroscopy of Organic Radicals," PhD in 1994. Current address:
Mass Sensors, Inc.
St. Louis, MO
15. Eileen Patricia Clifford, "Photoelectron Spectroscopy of Negative Ion [HCNN⁻, CNN⁻, NCN⁻, HNCN⁻, HOO⁻, (CH₃)₃COO⁻, (CH₃)₂C-C(CH₂)₂⁻] and the Reaction Dynamics of the Radicals and Ions " PhD in 1997. Current address:

Therma-Wave, Inc.
1250 Reliance Way
Fremont, CA 94539

16. Paul Rudolph Winter, "Photochemistry and Spectroscopy in the Condensed Phase: The photodecomposition of $\text{CH}_3\text{CH}_2\text{COCl}$, and the production and detection of propargyl radical in an Ar matrix," PhD in 1999. Current address:
Postdoctoral Fellow
Department of Chemistry
Washington University
St. Louis, MO 63130
17. Anders V. Friderichsen, "Infrared Spectroscopy of Matrix-Isolated Aromatic Hydrocarbon Radicals," PhD in April, 2001. current address:
Jagtvej 109A, 2.tv.
DK-2200 Copenhagen N
Denmark
18. Sreela Nandi, "The Polarized Infrared Spectroscopy of Allyl Radical and Methyl Peroxyl Radical in Cryogenic Matrices *via* Molecular Beams," PhD in April, 2001. Current address:
Planning and Programming Lead, Numerical Prediction
Office of Science and Technology
NOAA's National Weather Service
1325 East-West Highway
Silver Spring, Maryland 20910-3283
19. Stephen J. Blanksby, Postdoctoral Associate in 2000-2002. current address:
Lecturer of Chemistry
Department of Chemistry
University of Wollongong
NSW, AUSTRALIA 2522
ph: (612) 4221 5484
fax: (612) 4221 4287
blanksby@uow.edu.au
20. Evan B. Jochowitz, "Hydrocarbon Radicals and Their Oxidation Products", PhD in November, 2004. Current Address:
Philip Morris Products S.A.
Research & Development
Quai Jeanrenaud 5
2000 Neuchâtel
SWITZERLAND
21. Timothy M. D'Andrae, "The Heterogeneous Oxidation of Thin Hydrocarbon Films", PhD in July, 2008, Current Address:
Colorado Mesa University
Department of Chemistry,
Grand Junction, CO 81501

22. Luis A. Cuadra-Rodriguez, "Design and Development of a Droplet Mass Spectrometer", PhD in April, 2011
Dept. of Chemistry and Biochemistry
Scripps Institution of Oceanography
UC San Diego
La Jolla CA 92093-0314
23. Dr. Beth Reed, Postdoctoral Associate in 2009-2011.
24. Adam Michael Scheer, "Thermal Decomposition Mechanisms of Lignin Model Compounds: From Phenol to Vanillin, PhD in Dec. 2011. Current address:
Combustion Research Facility, M/S 9055
Sandia National Laboratories
Livermore, CA 94551-0969
25. AnGayle Konstance Vasiliou, " Thermochemical Conversion of Biomass: A Molecular Viewpoint", PhD in Dec. 2011. Current address:
Department of Chemical Engineering
Massachusetts Institute of Technology
Room 66-270
77 Massachusetts Ave
Cambridge MA 02139 USA