

Robert E. Continetti, Ph.D.
Curriculum Vitae

Department of Chemistry and Biochemistry, University of California, San Diego
9500 Gilman Drive, La Jolla, CA 92093-0358

Education B.A., Chemistry, The Johns Hopkins University 1983
Graduated with Departmental and General Honors.

Ph.D., Physical Chemistry, University of California, Berkeley 1989
Thesis Advisor: Professor Yuan T. Lee
Thesis Title: *Vibrational State-Resolved Differential
Cross Sections for the Reaction $D + H_2 \rightarrow DH + H$*

Appointments

Research Assistant and Chemist, Gas and Particulate 1978 – 1983
Science Division, National Bureau of Standards,
Gaithersburg, MD, with Dr. Lloyd A. Currie

Postdoctoral Research Associate, University of California, 1989 – 1992
Berkeley, Department of Chemistry, with Professor
Daniel M. Neumark

Assistant Professor, Department of Chemistry and Biochemistry, 1992 – 1997
University of California, San Diego

Associate Professor, Department of Chemistry and Biochemistry, 1997 – 1999
University of California, San Diego

Professor, Department of Chemistry and Biochemistry, 1999 – 2015
University of California, San Diego

Visiting Scientist, Combustion Research Facility, Sandia Nat'l 2000
Laboratory, Livermore, CA

Professore Visitatore, University of Rome "La Sapienza" 2000

Kurt Shuler Scholar in Physical Chemistry 2006 – 2011

Department Chair, Department of Chemistry and Biochemistry 2006 – 2012

Wilsmore Fellow, University of Melbourne 2012

Professore Visitatore, University of Rome "La Sapienza" 2013

Chair (elected), San Diego Division of the Academic Senate 2015 – 2016

Distinguished Professor, University of California, San Diego 2015 – 2025

Aarhus University Faculty Fellow 2017

Senior Associate Vice Chancellor – Academic Affairs, UCSD 2018 – tenure

Distinguished Chair in Physical Chemistry 2026 – tenure

Honors and Awards

UC Berkeley Chemistry Department Fellowship	1983 – 1984
Amoco Graduate Fellow, U.C. Berkeley	1988 – 1989
Phi Beta Kappa	1989
Camille and Henry Dreyfus New Faculty Awardee	1992
UCSD Chancellor's Summer Faculty Fellowship	1993
David and Lucile Packard Fellow in Science and Engineering	1994 – 1999
Camille Dreyfus Teacher-Scholar	1996 – 2001
Alfred P. Sloan Research Fellow	1997 – 1999
Warren College Outstanding Teacher Award	1997
Fellow, American Physical Society	2000
UCSD Diversity Champion Award	2012
ACS Division of Physical Chemistry Award in Experimental Chemistry	2012
Fellow, American Association for the Advancement of Science	2018
Distinguished Chair in Physical Chemistry	2026

Professional Affiliations

Fellow, American Association for the Advancement of Science
Fellow, American Physical Society
Member, American Chemical Society

Research Interests

Molecular reaction dynamics, including dynamics of three-body collisions
Dissociation dynamics and energetics of reactive intermediates
Photoelectron spectroscopy, photodetachment and dissociative photodetachment
dynamics of negative ions
Dissociative recombination and charge-exchange processes of positive ions
Novel techniques in mass spectrometry and ion traps
Gas- and particle-surface interactions
Spectroscopy and collision dynamics of micron and sub-micron particles
Chemical dynamics in aqueous droplets

Contracts and Grants

Current Research Support

1. *Hypervelocity sampling of microorganisms*, Jet Propulsion Laboratory Subcontract, \$117,930 total costs, 10/2024 – 9/2026.
2. *Multi-University Research Initiative (MURI) - An integrated experimental and theoretical approach toward understanding novel reactivity, structure, and chemical gradients in aqueous microdroplets*, AFOSR, \$2M total costs, 5/22 – 4/26. (PI)

3. *Dynamics and Energetics of Elementary Reactions and Transient Species Using Coincidence Spectroscopy*, DOE, \$660,000 total costs, 4/23 – 3/27.

Departmental and University Service Activities

Departmental Graduate Student Recruitment Committee	(1992 – 1993)
Departmental Graduate Student Recruitment Committee	(1993 – 1994)
Departmental First Year Graduate Advising Committee	(1993 – 1994)
Departmental Graduate Student Recruitment Committee Chair	(1994 – 1995)
Departmental First Year Graduate Advising Committee Chair	(1994 – 1995)
Departmental Search Committee for Endowed Physical Chemistry Chairs	(1994 – 1995)
Campus Laser Safety Committee	(1994 – 1996)
Departmental Standing Space Committee	(1995 – 1996)
Departmental Facilities, Subsidies and Recharge Review Committee	(1996 – 1997)
Departmental Graduate Student Recruitment Committee Chair	(1996 – 1997)
Co-Director, Department of Education GAANN Training Grant	(1997 – 2000)
Departmental Physical Chemistry Faculty Search Committee	(1997 – 1998)
Departmental Graduate Admissions Committee	(1997 – 1998)
Academic Senate Committee on Undergraduate Scholarships and Honors	(1997 – 1998)
Departmental Graduate Admissions Committee	(1998 – 1999)
Academic Senate Committee on Undergraduate Scholarships and Honors	(1998 – 1999)
Co-Director, Department of Education GAANN Training Grant	(1998 – 2001)
Chair, Environmental Chemistry Faculty Search Committee	(2000 – 2001)
Physical Chemistry Representative for Departmental Council	(2000 – 2001)
Co-Director, Department of Education GAANN Training Grant	(2000 – 2003)
Physical Chemistry Representative for Departmental Council	(2001 – 2002)
Departmental Physical Chemistry Faculty Search Committee	(2001 – 2002)
Physical Chemistry Representative for Departmental Council	(2002 – 2003)
Departmental Physical Chemistry Faculty Search Committee	(2002 – 2003)
Campus Research Machine Shop Oversight Committee (Vice Chair)	(2003 – 2011)
Co-Director, Department of Education GAANN Training Grant	(2003 – 2006)
Physical Chemistry Representative for Departmental Council	(2003 – 2004)
Chair, Physical Chemistry Faculty Search Committee	(2003 – 2004)
Campus Student Health Center Building Advisory Committee	(2003 – 2005)
Academic Senate Graduate Council	(2003 – 2004)
Chair, Academic Senate Graduate Council Fellowship Subcommittee	(2003 – 2004)
Physical Chemistry Representative for Departmental Council	(2004 – 2005)
Physical Chemistry Representative for Dept. Academic Affairs Comm.	(2004 – 2005)
Academic Senate Graduate Council	(2004 – 2005)
Chair, Academic Senate Graduate Council Fellowship Subcommittee	(2004 – 2005)
Chair, Graduate Council	(2005 – 2006)
Senate Council	(2005 – 2006)
Senate-Administration Council	(2005 – 2006)
Program Review Committee	(2005 – 2006)

Bio. and Physical Sciences Building Advisory Committee	(2006 – 2007)
Chair, Department of Chemistry and Biochemistry	(2006 – 2009)
Chair, Department of Chemistry and Biochemistry	(2009 – 2012)
Search Committee for Senior Vice Chancellor, Academic Affairs	(2010 – 2011)
Chair, Chancellor's Diversity Council	(2009 – 2011)
Campus Climate Council	(2010 – 2012)
Search Committee for VC – Equity, Diversity and Inclusion	(2011 – 2012)
Academic Senate Observer, Chancellor's Budget Committee	(2011 – 2012)
Chair, Campus Research Machine Shop Oversight Committee	(2011 – 2018)
Diversity and Consensus Faculty Focus Group	(2011 – 2012)
Review Committee for VC Health Sciences	(2012)
Departmental Endowment Committee	(2012 – 2018)
Director and PI, Dept. of Education GAANN Training Grant	(2012 – 2015)
Departmental Undergraduate Affairs Committee	(2013 – 2014)
Chair, Experimental Physical Chemistry Search Committee	(2013 – 2014)
Vice-Chair, Academic Senate Committee on Planning and Budget	(2013 – 2014)
Campus Budget Strategy Committee	(2013 – 2014)
Search Committee for AVC – Faculty Equity	(2013 – 2014)
Search Committee for VC Student Affairs	(2013 – 2014)
Search Committee for AVC Resource Management	(2014)
Vice-Chair (Chair Elect) Academic Senate, San Diego Division	(2014 – 2015)
Academic Senate Council, San Diego Division	(2014 – 2015)
Senate-Administration Council, San Diego Division	(2014 – 2016)
Program Review Committee	(2014 – 2016)
Committee on Implementation of Joint Hires Involving Health Sciences	(2014 – 2015)
Departmental Graduate Affairs Committee	(2014 – 2016)
Consolidated Faculty Search Committee, Dept. of Chem./Biochem.	(2014 – 2015)
Senate-Administration Task Force on Family Accomodations	(2014 – 2015)
Standing Committee for Service and People-Oriented Culture	(2014 – 2015)
Panelist, Women Faculty Mixer and Roundtable, Sponsored by the VC-EDI	(2015)
Chair, Academic Senate, San Diego Division	(2015 – 2016)
Chair, Academic Senate Council, San Diego Division	(2015 – 2016)
Co-Chair, Senate-Administration Council, San Diego Division	(2015 – 2016)
Academic Council of the Academic Senate (Systemwide)	(2015 – 2016)
Director and PI, Dept. of Education GAANN Training Grant	(2015 – 2018)
Information Technology Executive Governance Committee	(2015 – 2016)
Search Committee for Chief Information Officer, UCSD	(2015 – 2016)
Initiative for Maximizing Student Development Internal Advisory Comm.	(2016 – 2020)
Equity, Diversity and Inclusion Advisory Council, UCSD	(2015 – 2016)
Academic Senate Council, San Diego Division	(2016 – 2017)
Senate-Administration Council, San Diego Division	(2016 – 2017)
Committee on Academic Personnel, San Diego Division	(2017 – 2018)
Chair, Departmental Graduate Affairs Committee	(2017 – 2018)
Departmental Education Committee	(2017 – 2018)
Senior Associate Vice Chancellor – Academic Affairs	(2018 – present)
Council of Vice Provosts, UCOP	(2018 – present)

Senate-Administration Workgroup on Teaching Professors, Co-Chair	(2018 – 2019)
Senate-Administration Workgroup on Graduate Student Funding	(2018 – 2019)
Senate-Administration Workgroup on Faculty Workload	(2018 – 2019)
Triton Center Building Advisory Committee (BAC), Co-Chair	(2018 – 2023)
Design and Innovation Building BAC, Chair	(2018 – 2019)
Strategic Academic Program Development Steering Committee	(2018 – 2020)
Dean Designee, Halicioğlu Data Science Institute	(2018 – 2024)
Dean Designee, Chancellor’s Joint FTE Faculty Recruitment Initiative	(2018 – present)
Data and Analytics Governance Committee, Co-Chair	(2018 – 2023)
Enterprise Information Service Committee	(2018 – present)
Undergraduate Enrollment Committee	(2019 – 2022)
EVC Resource Group	(2018 – present)
EVC Senior Leadership Group	(2018 – present)
Future College Living and Learning Neighborhood BAC Co-chair	(2019 – present)
Dean Designee, San Diego Supercomputer Center	(2019 – 2024)
Dean Designee, Qualcomm Institute	(2019 – present)
Dean Designee, Design Lab	(2019 – present)
Executive Planning Group (COVID-19)	(2020)
Campus Operations Group (COVID-19)	(2020 – 2021)
Educational Continuity Task Force (COVID-19)	(2020 – 2021)
Research Continuity Task Force (COVID-19)	(2020 – 2021)
Chair, General Campus Summer Budget Planning Guidance Task Force	(2020)
UCOP Advancing Faculty Diversity Advisory Group	(2020 – present)
Theatre District Living and Learning Neighborhood BAC Co-chair	(2019 – 2021)
Department Industrial Relations Committee	(2021-2024)
Co-Chair, Senate-Administration Workgroup on Academic Advancement In the Wake of COVID-19	(2021 – 2023)
Co-Chair, Senate-Administration Proposal Taskforce – Formation of the School of Computing, Information and Data Science	(2021 – 2024)
UCOP Negotiated Salary Trial Plan Review Task Force	(2021 – 2022)
Co-Chair, Senate-Administration Workgroup on Academic Coordinators	(2022 – 2023)
Ridge Walk North Living and Learning Neighborhood BAC Co-chair	(2022 – 2026)
Co-Chair, Senate-Administration workgroup review of the Institutional Reference Check Program	(2023 – 2024)
Chair, Academic Affairs Workgroup on the Academic Support Model	(2024)

Professional Service Activities

Co-organizer, SPIE conference, “Laser Techniques for State-Selected and State-to-State Chemistry IV”	January 29 – 31, 1998
Workshop Leader, Project Kaleidoscope workshop on “Building and Sustaining the Research-Rich Environment” University of Arizona	November 13 – 15, 1998
External Review Panel, DOE Ames Laboratory, Ames, IA	May 9 – 11, 1999
Co-organizer, ACS Symposium, “Imaging in Chemical Dynamics” 218th ACS National Meeting, New Orleans	August 24 – 26, 1999

Invited Participant, 2nd Annual Chinese-American Frontiers of Science Symposium,
Chinese Academy of Sciences/US Nat'l Acad. of Sciences, Beijing, China August 20 – 22, 1999

Invited Participant, NRC Chemical Sciences Roundtable Meeting on the Future of
Graduate Education, Washington, DC December 5 – 6, 1999

Co-organizer, Pacificchem 2000 Symposium, “New Frontiers in Chemical Reaction Dynamics”
Honolulu, Hawaii December 14 – 19, 2000

Invited Participant, NRC meeting on National Security and Homeland Defense:
Challenges for the Chemical Sciences in the 21st Century, Irvine, CA January 14 – 16, 2002

Advisory Committee for the Int'l Symposium on Molecular Beams 2003 – present

Vice-Chair, Gordon Conference on Photoions, Photoionization and Photodetachment,
Oxford, UK September, 2003

Opponent for Ph.D. Defense of Karoline Wiesner, Department of Physics,
University of Uppsala, Uppsala, Sweden January 24, 2004

NSF Chemistry Review Panel June 2004

Opponent for Ph.D. Defense of Fredrik Hellberg, Department of Physics
Stockholm University, Stockholm, Sweden October 21, 2005

Chair, Gordon Conf. on Photoions, Photoionization and Photodetachment,
Buellton, CA January 29 – February 3, 2006

External Review Panel, Multiply Charged Ion Research Facility, Oak Ridge National
Laboratory, Oak Ridge, Tennessee February 25 – 27, 2007

Participant, Excellence Empowered by a Diverse Workforce: Achieving Racial and
Ethnic Equity in Chemistry, NSF Workshop, Arlington VA September 24 – 26, 2007

Participant, NSF-PAID UC Chairs Diversity Retreat, Lake Arrowhead October 10 – 12, 2007

Chair, 29th International Symposium on Free Radicals August 12 – 17, 2007

External Advisory Panel, Keck Foundation Project, UH Manoa, HI 2008 – 2011

External Review Committee, Office of Research Affairs, Ohio State University March 2008

Editorial Advisory Board, *Journal of Physical Chemistry A* 2008 – 2010

Secretary, International Committee for the Int'l Symposium on Free Radicals 2009 – present

Participant, Second China-US Chemistry Deans-Chairs Forum, Beijing, China July 11 – 15, 2009

Earle K. Plyler Award Selection Committee, American Physical Society 2009 – 2010

Int'l Program Committee, Electrostatic Storage Devices Workshops 2010 – present

Participant, National Diversity Equity Workshop, Washington DC January 24 – 26, 2011

Academic Program Review Committee, Univ. of Arizona Dept. of Chem. and Biochem.
Feb 22 – 24, 2011

Lecturer on Reaction Dynamics of Transient Species, Conference Universitaire de Suisse
Occidentale (CUSO) (Basel, EPFL Lausanne, Geneva, Fribourg) April 4 – 13, 2011

Lecturer on Spectroscopy in Complex Systems: Photoelectron Spectroscopy, Pan-American
Advanced Studies Institute, Cartagenas, Colombia June 6 – 12, 2011

Academic Program Review Committee, Chapman University Department of Chemistry
February 1 – 3, 2012

Elected Member-at-Large, Executive Committee of the Division of Chemical Physics, American
Physical Society 2012 – 2015

Member, Nominating Committee, Div. of Chemical Physics, American Physical Society
2012 – 2014

ACS National Award Committee Member 2012 – 2015

Lecturer on Applications of Photoelectron Spectroscopy, 1st Colombian School on Theory and
Computation in the Molecular Sciences, Universidad del Valle, Cali, CO April 29 – May 1, 2012

Editorial Board, *European Physical Journal (EPJ) Techniques and Instrumentation* 2013 – 2018

Academic Program Review Committee, San Diego State Univ., Dept. of Chem. and Biochem.
November 21 – 22, 2013

NSF Chemistry Review Panel April 24 – 25, 2014

Chair, Nominating Committee, Div. of Chemical Physics, American Physical Society 2014 – 2015

Local Organizing Committee, 33rd International Symposium on Free Radicals August 2 – 7, 2015

NSF Astronomy Review Panel April 13 – 14, 2015

Panelist, Workshop on Defining New Directions in Cold Chemical Physics, Boulder, CO
July 7 – 9, 2015

Review Committee for School of Chemistry, University of Melbourne Nov. 2 – Nov. 5, 2015

ACS Division of Physical Chemistry Award Committee 2015 – 2017

Elected Division of Chemical Physics Councilor to the Council of Representatives of the APS
2017 – 2020

NSF Chemistry Review Panel January 26 – 27, 2017

APS Medal and Prize Committee 2017 – 2020

Editor-in-Chief, *EPJ Techniques and Instrumentation*, Springer-Nature 2018 – 2020

NSF Chemistry Review Panel February 22 – 23, 2018

Review Committee for Department of Chemistry, Emory University March 1 – 2, 2018

Review Committee for Dept. of Chemistry and Biochemistry, Univ. Maryland Dec. 10 – 11, 2019

Tenth UC-China 10+10 Conference, Co-Organizer with Prof. Wei Xiong January 16-17, 2020

Section Editor-in-Chief, *EPJ Techniques and Instrumentation*, Springer-Nature 2020 – 2023

ACS National Award Committee Member 2020 – 2022

Review Committee for Dept. of Chemistry and Biochemistry, UCLA February 1-2, 2024

Reviewer for leading journals and major national and international funding agencies

Educational Activities

Former Ph.D. Students (Completed Ph.D., in chronological order)

1. Christopher R. Sherwood (B.S. Univ. of Chicago 1992; M.S. UCSD 1994; Ph.D. UCSD 1995)
Supplier Integration Manager, Commonwealth Fusion Systems
Dissociative Photodetachment and Photodissociation Dynamics of Cluster Anions
2. Mark C. Garner (B.S. UCLA 1993; M.S. UCSD, 1995; Ph.D. UCSD 1998)
Professor, College of Southern Nevada
Photochemistry of O_3^- and Dissociation Dynamics of the Low-Lying Excited States of O_3
3. Amy Khai Luong (B.S. UC Davis 1995; M.S. UCSD 1998; Ph.D. UCSD 2001)
Senior Director of Clinical Bioinformatics, Illumina
Three-Body Dissociative Photodetachment of Small Cluster Anions
4. Todd G. Clements (B.S. Harvey-Mudd 1997; M.S. UCSD, 1999; Ph.D. UCSD 2002)
Professor of Chemistry, Mt. San Antonio College
Multi-body Dissociative Photodetachment Dynamics of Small Molecular and Cluster Anions
5. Leah-Nani S. Alconcel (B.S. USC 1997; M.S. UCSD 1999; Ph.D. UCSD 2002)
Associate Professor, School of Metallurgy and Materials, University of Birmingham
Energetics and Dissociation Dynamics of Reactive Organic Intermediates
6. Christopher M. Laperle (B.S., U. Mass 1999; MS UCSD 2001; Ph.D. UCSD 2004)
Associate Professor of Chemistry, Providence College, RI
Experimental Studies of Multi-Body Dissociative Charge Exchange Dynamics
7. Michael Shane Bowen (B.S. S.F. State Univ. 1998; M.S. UCSD 2002; Ph.D. UCSD 2005)
Vice President of Technology Development, Atlas Data Storage
Photodetachment Dynamics of Oxygenated Organic Anions and Solvated Iodide Clusters
8. Zhou Lu (B.S. USTC., Hefei, China, 2002; M.S. UCSD 2003; Ph.D. UCSD 2007)
Professor, School of Physics and Electronic Information, Anhui Normal University, Wuhu, China
Dynamics of Gas Phase Transient Species Studied by Dissociative Photodetachment of Molecular Anions <https://escholarship.org/uc/item/30d6b52x>
9. Silvia De Dea (Laurea, Univ. Bologna, Italy 2001; MS UCSD 2004; Ph.D. UCSD 2008)
Xcimer
Nano-scale Magnetic Film Formation by Decompression of Supercritical CO_2 /Ferric Acetylacetonate Solutions <https://escholarship.org/uc/item/0pw027nv>
10. Jennifer E. Mann (B.S. University of Iowa, 2002; M.S. UCSD 2004; Ph.D. UCSD 2008)
Staff Scientist, Physical Electronics, Inc.
Probing the Potential Energy Surface of Elementary Neutral Reactions using Dissociative Charge Exchange <https://escholarship.org/uc/item/4nx8066s>
11. John D. Savee (B.S. UC Santa Barbara, 2002; M.S. UCSD 2005; Ph.D. UCSD 2009)

Research Scientist, KLA

An Experimental Probe of Electronic Interactions in Excited Molecules Produced by Charge Exchange <https://escholarship.org/uc/item/746579vs>

12. Christopher J. Johnson (B.S. Butler Univ., 2005; M.S. UCSD 2008, Ph.D. (Physics) UCSD 2011)
Assoc. Prof. of Chemistry, Stonybrook University
Investigation of the Reaction $OH + CO \rightarrow H + CO$ by Photoelectron-Photofragment Coincidence Spectroscopy in a Cryogenic Ion Beam Trap <https://escholarship.org/uc/item/00d9d8k3>
13. Amelia W. Ray (B.S. Scripps College, 2008; M.S. U. of San Francisco, 2010, Ph.D. UCSD 2016)
Lecturer in Chemistry, University of Wisconsin – Parkside, Kenosha, WI
Dissociation Dynamics of Transient Molecules Studied by Photoelectron-Photofragment Coincidence Spectroscopy <https://escholarship.org/uc/item/912310zx>
14. Ben Bin-Chiu Shen (B.S. CSU San Marcos, 2009; M.S. UCSD 2011, Ph.D. UCSD 2018)
Senior Scientist, NuMega Resonance Labs, San Diego, CA
Preparation of Hot and Cold Ions for Photoelectron-Photofragment Coincidence Spectroscopy <https://escholarship.org/uc/item/3vq9p2jg>
15. Katherine A. Nadler (B.S. Maryville College 2012; M.S. UCSD 2014, Ph.D. UCSD 2018)
Senior Engineer, Illumina, Inc., San Diego, CA
Application of a Mobile Electrodynamic Balance for Studying Water Diffusion in Single Charged Aerosol <https://escholarship.org/uc/item/27z907g1>
16. Katharine G. Lunny (B.S. Saint Anselm College 2014; M.S. UCSD 2016, Ph.D. UCSD 2019)
Staff Scientist, Physical Sciences, Inc., Andover, MA
Investigation of Reactive Oxides and Radical Dynamics by Photoelectron-Photofragment Coincidence Spectroscopy <https://escholarship.org/uc/item/2q40k4x1>
17. Morgan E.C. Miller (B.S. UCSD 2014; M.S. UCSD 2016, Ph.D. UCSD 2020)
Postdoc, Max Planck Institute for the Science of Light, Erlangen, Bavaria, Germany
Characterizing the Impact Dynamics of Small Particles: The Aerosol Impact Spectrometer <https://escholarship.org/content/qt0cp4c8c8/qt0cp4c8c8.pdf?t=qgunpm>
18. Yanice Benitez (B.S. UC Davis ; M.S. UCSD, Ph.D. UCSD 2020)
Staff Scientist, the Aerospace Corporation, El Segundo, CA
Probing Hydroxyl Radical Reactions Using Photoelectron-Photofragment Coincidence Spectroscopy <https://escholarship.org/content/qt5zq6j949/qt5zq6j949.pdf>
19. Pyeongeun Kim (B.S. Chemistry, Yonsei University, Seoul, Korea 2017, Ph.D. UCSD 2022)
Assistant Professor, Wellesley College, Wellesley, MA
Spectroscopy of Single Levitated Droplets: Unraveling Physical and Chemical Evolution of Atmospheric Aerosols <https://escholarship.org/content/qt9957t8ks/qt9957t8ks.pdf>
20. Eleanor Castracane (B.S., M.S., Chemistry, Stonybrook University 2016, 2017, Ph.D. UCSD 2024)
NRC Postdoctoral Associate, Naval Air Warfare Center Weapons Division, China Lake, CA

21. Sally Burke (B.S., University of California, Davis 2019, Ph.D. UCSD 2024)
 Chemistry Professor, Tacoma Community College, Tacoma, WA
Ice Particle Impact Phenomena and Hypervelocity Impact Ionization Mass Spectra
<https://escholarship.org/content/qt6k96v8gf/qt6k96v8gf.pdf>

Former M.S. Students

1. Melissa J. Castle (B.S. Rensselaer Polytechnic 1991; M.S. UCSD 1994)
2. Karen McSwain (B.S. Univ. of Colorado, Boulder, 1988; M.S. UCSD 1996)
 Womble and Carlyle, Intellectual Property Attorneys
3. Joseph McDaniels (B.E.S. University of Central Florida 1998; M.S. UCSD 2002)
The Effect of Nozzle Geometry on Cluster Formation in Molecular Beam Sources
 Schlumberger, Inc.
4. Silvia De Dea (Laurea, University of Bologna, Bologna, Italy 2001, MS UCSD 2004)
Metal Chelate Processing in Supercritical Carbon Dioxide
 Xcimer
5. Jonathan Oakman (B.S. California Lutheran Univ, 2005, M.S. UCSD 2007)
 Science Teacher, Mater Dei High School, San Diego
6. Austin Parsons (B.A. Macalester College, 2017, M.S. UCSD 2019)

Current Staff Scientists

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|---|----------------|
| Dr. Karl Hanold, Research and Development Engineer | 2020 – present |
| Joseph Taulane, Laboratory Manager (on recall to active duty) | 2012 – present |

Former Visiting Scientists and Graduate Students

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| Ricky Teiwes, Ph.D. Candidate, Aarhus University, Institute of Physics and Astronomy | (2018) |
| Prof. Daniel Strasser, Institute of Chemistry, Hebrew University in Jerusalem | (2016) |
| Yishai Albeck, Ph.D. Candidate, Institute of Chemistry, Hebrew University in Jerusalem | (2016) |
| Prof. Peter Kelly, University of California, Davis | (2015, 2016) |
| Prof. Andrei Sanov, University of Arizona | (2014) |
| Dr. Richard Thomas, Stockholm University | (2008, 2009, 2010, 2012) |
| Dr. Morton S. Fineman | (2003 – 2012) |
| Prof. Maurizio Becucci, University of Florence, Florence Italy | (2004) |
| Dr. Kenichi Iwamoto, Osaka Prefecture University, Osaka, Japan | (2003 – 2004) |
| Prof. Bong H. Boo, Department of Chemistry, Chungnam University, Korea | (1999) |
| Prof. Lester S. Andrews, Department of Chemistry, University of Virginia | (1999) |

Former Postdoctoral Associates

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|-----------------|--|---------------|
| Brian Adamson | (Ph.D. University of Melbourne, 2015) | (2015 – 2017) |
| | Staff Scientist, Thermo-Fisher, San Jose, CA | |
| Julia A. Davies | (Ph.D. 1995, University College, London, United Kingdom) | (1997 – 1999) |

Hans-Jürgen Deyerl	Research Associate, University College, London, UK (Ph.D. 1998, ETH Zürich, Switzerland)	(1999 – 2001)
Sergey A. Dobrin	Chemistry Teacher, Deut. Gym. F. Nordschleswig, Germany (Ph.D. 1996, Polish Academy of Sciences, Warsaw, Poland)	(1998 – 2000)
Jemma Gibbard	Research Scientist, University of Toronto (D. Phil., University of Oxford, 2015)	(2016 – 2020)
Toby D. Hain	Lecturer, University of Durham (Ph.D. 1998, University of Utah)	(2000 – 2001)
Karl A. Hanold	Patent Law, Cantor Colburn LLP, Hartford, CT (Ph.D. 1994, U.C. Berkeley)	(1994 – 1997)
Daoling Huang	Senior Scientist, Morpho Detection, Inc., Irvine, CA Research and Development Engineer, UCSD (Ph.D., 2016 Brown University)	(2017 – 2018)
Qichi Hu	(Ph.D. 2005, University of British Columbia)	(2005 – 2008)
Sridhar Lahankar	Staff Scientist, Anasys Instruments Corp., Santa Barbara CA Asst. Project Scientist (Ph.D. 2007 Wayne State University)	(2016 – 2017)
Runjun Li	(Ph.D. 1993, Academia Sinica, Beijing)	(1996 – 1998)
Daniel Chr. Lührs	Senior Research Associate, Texas A&M University (Ph.D. 2002, ETH Zürich, Switzerland)	(2002 – 2003)
Ryan McMullen	Business Development Manager, Solvias AG, Basel, Switzerland (B.S. Bristol, Ph.D. USC 2024)	(2024-2026)
Michelle P. Mezher	(Ph.D. 2016, University of Nevada Las Vegas)	(2017 – 2018)
Giovanni Piani	Staff Scientist, General Atomics, San Diego, CA (Ph.D. 2007, University of Florence)	(2007)
Rico Otto	Research Scientist, CNRS Saclay, France (Diplom and Ph.D., Universität Freiburg, Germany, 2011)	(2011 – 2015)
Berwyck L.J. Poad	Illumina Corporation (Ph.D. 2010, University of Melbourne)	(2010 – 2012)
Marianne Sowa Resat	Staff Scientist, Queensland Institute of Technology (Ph.D. 1994, State Univ. of New York at Stony Brook)	(1995 – 1996)
Andreas Rohrbacher	Staff scientist, Pacific Northwest Laboratory (Ph.D. 1995, University of Basel, Switzerland)	(1999 – 2000)
Veysel Zengin	Laser engineer, Time-Bandwidth, Inc., Zürich, Switzerland (Ph.D. 1993, Middle East Tech. Univ., Ankara, Turkey)	(1995 – 1997)
	QA Manager, Bilim Ilac, Istanbul, Turkey	

Former Undergraduate Research Students

Clayton Anderson	(B.S. Physics and Mathematics UCSD 2015)	2013 – 2015
	Dean of Physical Sciences Undergraduate Award for Excellence, 2015	
Joshua Antelman	(B.S. Chemistry UCSD 2000)	1998– 2000
Zachary Auvil	(B.S. Chemistry UCSD 2023)	2022 – 2023
	Dean of Physical Sciences Undergraduate Award for Excellence, 2023	
Summer Bates	(B.S. Chemistry, UCSD 2017)	2016
Theodore Bitner	(B.S. Chemical Physics UCSD 1996)	1995
Jessica Blevins	(B.S. Chemistry UCSD 1995)	1994
Sarah Bronner	(B.S. Chemistry, UCSD 2007)	2006

Christopher Condon	(B.S. Chemistry, UCSD 2017)	2016
Hoan-Nguyen Doan	(B.S. Chemistry UCSD 1996)	1995
Christopher Duarte	(B.S. Chemical Engineering, UCSD)	2007
Gregory Dupraw	(B.S. Chemistry and Physics, UCSD 2010)	2009 – 2010
Kevin T. Early	(B.S. Chemistry UCSD 2005)	2004 – 2005
Anthony Fu	(Chemical Physics, UCSD 2009) (graduate student, UCB)	2007 – 2009
	Dean of Physical Sciences Undergraduate Award of Excellence, 2008	
J.C. Gallardo	(Chemistry Major, UCSD)	2001 – 2002
Scott J. Graybeal	(B.S. Chemistry UCSD 1994)	1993
Dominic Graziani	(B.S. Chemistry, UCSD 2006)	2004 – 2006
Elad Harel	(B.S. Chemistry, UCSD 2003)	2000 – 2003
	Silagi Award, UCSD, 2003	
Keren Jacobs	(B.S. Chemical Physics UCSD, 1996)	1995
Jacqueline Kessler	(B.S. Chemical Physics UCSD 1998)	1996 – 1998
Miao Li	(B.S. Chemical Engineering, 2016)	2015
Shawn Littrell	(B.S. Chemistry UCSD 1996)	1996
Raymond W. Liu	(B.S. Bioengineering UCSD 2000)	1998 – 2000
Kevin R. Mackie	(B.S. Mechanical Engineering, UCSD 1995)	1994
Morgan Miller	(B.S. Physics, UCSD 2014)	2013 – 2014
Anthony A. Mrse	(B.S. Chemistry UCSD 1994)	1992 – 1993
Laura Neurauter	(B.S. Chemistry UCSD, 2001)	1999 – 2001
Joseph Rempel	(B.S. Chemistry UCSD, 2018)	2017 – 2018
Erik K. Richman	(B.S. Chemical Physics UCSD 2000)	1999 – 2000
Jiwon Ashley Shin	(B.S. Chemistry, Washington Univ. in St. Louis)	2016, 2017-2018
Nicholas Watkins	(B.S. Chemistry, UCSD 2016)	2015, 2016
Samuel Wilson	(B.S. Chemistry, UCSD 2005)	2004
Surjani Winoto	(B.S. Chemistry, UCSD 1996)	1994
Timothy Yo	(B.S. Chemical Engineering, UCSD 2017)	2015 – 2017

Courses Taught (Career):

1992 – 1993	Chemistry 298	Chemical Physics Seminar
1993 – 1994	Chemistry 105A/B	Physical Chemistry Laboratory
	Chemistry 231	Chemical Kinetics/Reaction Dynamics
	Chemistry 298	Chemical Physics Seminar
1994 – 1995	Chemistry 105A/B	Physical Chemistry Laboratory
	Chemistry 231	Chemical Kinetics/Reaction Dynamics
	Chemistry 6B	General Chemistry
1995 – 1996	Chemistry 105A/B	Physical Chemistry Laboratory
	Chemistry 231	Chemical Kinetics/Reaction Dynamics
	Chemistry 6B	General Chemistry
	Chemistry 298	Chemical Physics Seminar
1996 – 1997	Chemistry 105A/B	Physical Chemistry Laboratory
	Chemistry 231	Chemical Kinetics/Reaction Dynamics
	Chemistry 298	Chemical Physics Seminar
1997 – 1998	Chemistry 105A/B	Physical Chemistry Laboratory

	Chemistry 6B	General Chemistry
1998 – 1999	Chemistry 105A/B	Physical Chemistry Laboratory
	Chemistry 105A/B	Physical Chemistry Laboratory
	Chemistry 231	Chemical Kinetics/Reaction Dynamics
	Chemistry 298	Chemical Physics Seminar
1999 – 2000	Chemistry 105A/B	Physical Chemistry Laboratory
	Sabbatical (2 quarters)	
2000 – 2001	Chemistry 105A/B	Physical Chemistry Laboratory
	Chemistry 231	Chemical Kinetics and Reaction Dynamics
	Chemistry 105A/B	Physical Chemistry Laboratory
2001 – 2002	Chemistry 105A/B	Physical Chemistry Laboratory
	Chemistry 231	Chemical Kinetics and Reaction Dynamics
2002 – 2003	Chemistry 105A/B	Physical Chemistry Laboratory
	Chemistry 231	Chemical Kinetics and Reaction Dynamics
	Chemistry 298	Chemical Physics Seminar
2003 – 2004	Chemistry 298	Chemical Physics Seminar
	Chemistry 132	Physical Chemistry II (Kinetics and Stat. Mech.)
	Chemistry 105A/B	Physical Chemistry Laboratory
2004 – 2005	Chemistry 298	Chemical Physics Seminar
	Chemistry 105A/B	Physical Chemistry Laboratory
	Chemistry 135/235	Molecular Spectroscopy
2005 – 2006	Chemistry 298	Chemical Physics Seminar
	Chemistry 105A/B	Physical Chemistry Laboratory
	Chemistry 135/235	Molecular Spectroscopy
2006 – 2012	Department Chair	
2008 – 2009	Chemistry 231	Chemical Kinetics and Reaction Dynamics (0.25)
2009 – 2010	Chemistry 231	Chemical Kinetics and Reaction Dynamics (0.50)
2012 – 2013	Sabbatical (3 quarters)	
2013 – 2014	Chemistry 231	Chemical Kinetics and Reaction Dynamics
	Chemistry 105A/B	Physical Chemistry Laboratory
2014 – 2015	Chemistry 231	Chemical Kinetics and Reaction Dynamics
2015 – 2016	Chemistry 231	Chemical Kinetics and Reaction Dynamics
2016 – 2017	Sabbatical (2 quarters)	
	Chemistry 231	Chemical Kinetics and Reaction Dynamics
2017 – 2018	Chemistry 231	Chemical Kinetics and Reaction Dynamics

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Peer-Reviewed Publications

1. G.N. Robinson, R.E. Continetti and Y.T. Lee, *Dynamics of endoergic aromatic substitution reactions*, Faraday Disc. Chem. Soc. **84**, 25-37 (1987).
2. R.E. Continetti, B.A. Balko and Y.T. Lee, *Symmetric stretch excitation of CH₃ in the 193.3 nm photolysis of CH₃I*, J. Chem. Phys. **89**, 3383-3384 (1988).
3. G.N. Robinson, R.E. Continetti and Y.T. Lee, *Dynamics of endoergic substitution reactions. I: Br + chlorinated aromatic compounds*, J. Chem. Phys. **89**, 6226-6237 (1988).
4. G.N. Robinson, R.E. Continetti and Y.T. Lee, *Dynamics of endoergic substitution reactions. II: Br + {CH₂CCl₂} Cl + {CH₂CClBr}*, J. Chem. Phys. **89**, 6238-6246 (1988).
5. G.N. Robinson, G.M. Nathanson, R.E. Continetti and Y.T. Lee, *Crossed molecular beam studies of the reactions of methyl radicals with iodoalkanes*, J. Chem. Phys. **89**, 6744-6752 (1988).
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