
UC Chemical Symposium

Berkeley • Merced • San Francisco • Irvine • Santa Barbara
Los Angeles • San Diego • Davis • Santa Cruz • Riverside



<http://uccs.ucsd.edu> March 27-29 2017

Table of Contents

Welcome	1
The UCLA Lake Arrowhead Conference Center and Transportation	1
Check-in	2
Check-out	2
Presentation Guidelines	3
Posters	
Oral Presentations	
Lightning Talks	
Awards	3
Conference Schedule	4
Professional Development Activities	5
Career Panel	
NSF Faculty Early Career Development Program Workshop	
Elevator Pitch Workshop	
Other Activities	5
Hike/Run	
Volleyball	
Vendor Show	
Biographies	6
2017 UCCS Organizers	10
Future 2018 UC Chemical Symposium Committee Selection	10
Sponsors	11
Presentations	13
Lightning talks	
Oral Presentations	
Poster Presentations	

Welcome

Welcome to the 2017 University of California Chemical Symposium! The 2017 UCCS will be held on March 27-29, 2017 at the UCLA Lake Arrowhead Conference Center and will be attended by over 100 University of California graduate students and postdoctoral scholars. As the UC system is home to some of the most cutting edge research in chemical sciences we encourage you all to exchange research ideas with your peers from other campuses, explore future career options with our guest senior scientists, and engage in our professional development workshops. It is our hope that lasting research and personal relationships will be formed through this conference and we will part with enthusiasm for the next conference in 2018.

In this document you will find all of the information you will need for the conference. You may also refer to our [website](#) and our [facebook page](#) for more information.

The UCLA Lake Arrowhead Conference Center and Transportation

The UCLA Lake Arrowhead Conference Center is located in Lake Arrowhead, California. This venue has a secluded mountain-retreat feel with all meals and cottage-style Condolets provided. Outside of the conference there are many opportunities for recreation such as local ski resorts and hiking trails.

Directions to the UCLA Lake Arrowhead Conference Center can be found on their [website](#). If you are flying into Ontario Airport please note that there is still a considerable drive to the conference venue (approximately 1 hr).



We have set up a [shared carpool site](#) if you are looking to share a ride to or from the conference from your school. Please see the website for details and sign up if possible to drive with others if you have a car.

For most routes: Take Freeway 210 east (Mountain Resorts). Exit at Waterman Avenue and turn left (North) at signal. Continue forward. Waterman Avenue turns into Highway 18. Stay on Highway 18 for 20 miles into the mountains to the Lake Arrowhead turnoff. This is a left turn onto Highway 173. Stay on Highway 173 for approximately 2 miles until you come to a stop sign. Turn right at the stop sign. This is a continuation of Highway 173. You will be on Highway 173 for approximately 5 miles around the lake. When you see our sign (UCLA Conference Center) take the very next left onto Willow Creek Rd. Come to the end of the road, curve to the right, and then take the next right into the Conference Center.

Address: UCLA Lake Arrowhead Conference Center
850 Willow Creek Rd, Lake Arrowhead, CA 92352

UCLA LAKE ARROWHEAD CONFERENCE CENTER PROPERTY MAP



Check-in

Please check-in to your rooms between 4:00pm and 5:30pm on Monday March 27th. There will be a booth set-up through the Main Entrance at the Main Lodge. From there you will receive your conference materials and room assignment. Our opening keynote will begin promptly at 5:30 pm followed by dinner at 6:30pm so don't be late!

Check-out

The conference will conclude on Wednesday March 29th at 12:00pm. Please check-out by returning your key to the front desk before noon. Lunch will be provided from 12:00-1:00 pm prior to our departure at 1:00 pm.

Presentation guidelines

Posters

Posters should be no larger than 4'x6' (same size as ACS posters). You will be assigned a poster number where you will mount your poster, supplies will be provided.. Please mount your posters between 6:00 and 8:00 pm on Tuesday March 28th.

Oral Presentations

Talks should be 15 minutes long, with 5 minutes for questions. Please bring your own computer with a HDMI adapter and laser pointer if necessary.

Lightning talks

Lightning talks should be 3 minutes long (typically 2 or 3 slides), with 2 minutes for questions. These must be pre-loaded to ensure a smooth transition between talks.

Awards

Best Oral Presentation (3)	Sponsors ACS Nano, Nano Letters, JACS
Best Lightning Talk	RSC Chemical Science
Overall Best Poster	JACS
Best Materials/Nanotechnology Poster	ACS Nano & Nano Letters
Best Organic/Chemical biology Poster	RSC Organic & Biomolecular Chemistry
Best Biochemistry Poster	RSC ChemComm
Best Inorganic Poster	RSC Dalton Transactions
Best Physical/Theoretical Poster	RSC PCCP
Best Analytical Poster	RSC Analyst

Conference Program:

Monday March 27

- 4:00-5:30 pm Room check-in and registration (*Living Room*)
5:30-6:30 Opening Keynote Speaker: Catherine Murphy (*Pineview Room*)
6:30-8:00 Dinner (*Dining Room*)
8:00-10:00 Lightning Talks (*Pineview Room*) and Dessert
9:00-midnight Social (*Lakeview Room*)

Tuesday March 28

- 7:00-8:30 am Group hike and run
8:00-9:00 Breakfast (*Dining Room*)
9:00-12:00 Oral Presentations (*Pineview Room - R1 and Cedar Room - R2*)
11:00-11:15 Coffee break sponsored by Corning
12:00-2:00 pm Lunch (*Dining Room*) and activity break
2:00-3:00 Career Panel (*Pineview Room*)
3:00-4:00 NSF Early CAREER Faculty Fellowship Workshop (*Lakeview Room*) and Elevator Pitch Workshop (*Library Room*) and vendor show
4:00-6:00 Oral Presentations (*Pineview Room - R1 and Cedar Room - R2*)
5:00-5:20 Coffee break sponsored by Corning
6:00-6:30 Personal interviews with panelists (*Skyview Room*) / free time / set up posters
6:30-8:00 Dinner (*Dining Room*)
8:00-10:00 Poster session (*Lakeview and Library Rooms*) and social
**Optional social activities in light blue

Wednesday March 29

- 8:00-9:00 am Breakfast (*Dining Room*)
9:00-10:50 Oral Presentations (*Pineview Room - R1 and Cedar Room - R2*)
10:50-11:00 Poster session and oral presentation awards (*Pineview Room*) sponsored by ACS Nano, Nano Letters, and JACS
11:00-12:00 Closing Keynote Speaker: Vy Dong (*Pineview Room*)
12:00-1:00 pm Lunch (*Dining Room*)
Check out of room by noon
Departure by 1:00 pm

Professional Development Activities

Career Panel

Do you struggle to answer the dreaded question about your plans after graduation? Come to the career panel to get some ideas of what career options you have. The career panel will take place on Tuesday March 28th from 2:00-3:00 pm in the Pineview Room. This will be a guided Q&A session with professionals representing a variety of career opportunities for those in the chemical sciences. Please come prepared with your career questions note that there will be time to interact with these individuals throughout the conference.

NSF Faculty Early Career Development Program Workshop

Are you interested in pursuing a career in academia and education? Then you should participate in this workshop offered by Dr. Tyrone D Mitchell of the NSF Division of Graduate Education. He will guide students who are pursuing academia along the path to achieving the prestigious Faculty Early Career Development ([CAREER](#)) Program award. Dr. Mitchell requests that you come prepared to take notes and ask many questions! Don't miss out on this unique opportunity to get insider information on this award! The workshop will take place on Tuesday March 28th from 3:00pm - 4:00pm in the Lakeview Room.

Elevator Pitch Workshop

Do you want to learn how to explain your research in an interesting and concise manner? Or do you want to practice pitching your research to prospective employers? Then come to the Elevator Pitch Workshop led by Dr. Laura E Fernandez, the managing editor for ACS Nano & Nano Letters. Hear some tips for effective communication and be prepared to ask questions or practice your elevator pitch in a group setting. If you are participating in GradSlam, this is an excellent opportunity to practice and receive feedback before the competition. This workshop will take place on Tuesday March 28th from 3:00pm-4:00pm in the Library Room.

Other Activities

Morning Hike/Run

Join us for a morning hike or run on Tuesday March 28th! Hikers and runners should meet in the Main Lodge by the front desk at 7:00 am. Maps are available at the front desk.

Volleyball

Stretch those legs after a long morning of oral presentations for a friendly game of sand volleyball! Come out to the volleyball court between 12:00 pm and 2:00 pm on Tuesday March 28th, but don't miss lunch!

Vendor Show

Meet representatives from our sponsors and local vendors! They will be available from 3:00-4:00pm.

Biographies

Opening Keynote Speaker: Dr. Catherine J Murphy

Professor Murphy is currently the Peter C. and Gretchen Miller Markunas Professor of Chemistry at the University of Illinois Urbana- Champaign, a position she has held since 2009. Previously, she has received two bachelor's' degrees in chemistry and biochemistry from the University of Illinois Urbana- Champaign followed by graduate work at the University of Wisconsin Madison, then postdoctoral work at the California Institute of Technology as a NSF and NIH Postdoctoral Fellow. From 1993-2009 she was at the University of South Carolina in the department of Chemistry and Biochemistry before moving to the University of Illinois.

Her research interests focus around nanoparticles and nanotechnology, spanning a wide variety of techniques and applications. They include synthesis and characterization of inorganic nanoparticles and nanomaterials, the use of nanoparticles in energy, electronics, and biotechnology fields, as well as the sustainability and environmental impact of nanomaterials. She has co-authored over 225 publications throughout her career, and received many prestigious honors and awards, including election into the National Academy of Sciences in 2015.

Closing Keynote Speaker: Dr. Vy Dong (Sponsored by the Royal Society of Chemistry)

Professor Dong is a Professor at University of California Irvine. She had previously received her bachelor's degree from UC Irvine, working on an honor's project with Larry Overman. Following that, she worked with David MacMillan on her doctoral work, initially at UC Berkeley, later moving to Caltech. Following that, she moved back to UC Berkeley to perform postdoctoral work with Robert Bergman and Ken Raymond, then started her independent career at the University of Toronto from 2006-2013, and in 2010 was named the Adrian Brook professor of chemistry there before moving to UC Irvine.

Professor Dong's research is focused on chemistry aimed at improving organic and organometallic synthesis, covering reagent and enantioselective catalyst synthesis as well as natural product synthesis. By using these techniques, some current research goals include carbon-hydrogen bond activation, carbon dioxide activation for synthesis, and make heterocyclic compounds that are natural products or otherwise biologically active. Applications for her group's new synthetic strategies include pharmaceuticals, materials, and other fields in addition to direct synthesis of natural products themselves.

Dr. Tyrone D. Mitchell - NSF Division of Graduate Education Program Director

Dr. Mitchell was born in New Orleans, LA and attended New Orleans Public Schools until enrolling at Dillard University in New Orleans, where he received a B.A. degree in Chemistry. Subsequently, he received a M.S. degree in Organic Chemistry from the University of Pittsburgh and a Ph.D. degree in Polymer Chemistry from Rensselaer Polytechnic Institute in Troy, NY. He worked 25 years at General Electric Co. where he co-authored 16 technical publications and holds more than 25 US patents in the areas of organosilicon chemistry, polymer chemistry, and the synthesis of adhesion promoters for use in silicone sealants. While at GE he worked at their Corporate Research and Development Center and at the Silicone Products Division. At the time of his departure from GE in 1990, products he helped to develop were producing over \$100M in annual sales.

He joined Corning Incorporated after GE where his work there involved the development of new coatings for optical fibers. He held a number of management positions at Corning Incorporated where his responsibilities included seeking new technology that could impact Corning's research and development activities. This included helping to establish university interactions and working proactively to monitor and maintain these relationships. He has served on the Board of Directors of the National Organization for the Professional Advancement of Black Chemists and Chemical Engineers and he has served on the Chemistry Section Committee of the American Association for the Advancement of Science. In November 1999 he completed a five-year tenure as a Board Member of the Center for Advanced Materials Processing at Clarkson University and in July 1999 completed a three-year commitment to the Board of Directors of the Technology Transfer Society. He also completed a four-year term as Member-at-Large to the Industrial Science & Technology Section of the American Association for the Advancement of Science. Dr. Mitchell is a 50 year member of the American Chemical Society.

After retiring from Corning Incorporated, he joined the National Science Foundation (NSF) as a Program Director in the Chemistry Division where he managed many of its Programs for 16 years. His most recent assignment since August 2016 is with the Division of Graduate Education at NSF working in the Graduate Research Fellowship Program.

Dr. Jennifer Griffiths - Editorial Development Manager Royal Society of Chemistry

Jennifer Griffiths received her Ph.D. in biological chemistry in 2005 from Duke University under the supervision of Prof. Eric Toone. After a postdoc at Yale University with Prof. Alanna Schepartz, she moved to Washington DC to work for ACS Publications, first as a science writer and then as Managing Editor of Analytical Chemistry. In 2012, she joined the Royal Society of Chemistry as the Editorial Development Manager for North America and has since expanded her responsibilities to South America as well. In her current role, she works with the staff in the United Kingdom to raise the profile of the journals, books and databases in the Americas and create a strategy for growth of the publications program.

Dr. Adam Johnson

Adam Johnson is a Professor of Chemistry at Harvey Mudd College. He earned his Bachelor of Arts degree in chemistry from Oberlin College, conducting senior thesis research on iron-ruthenium bimetallic complexes. He then began graduate work at MIT and earned his doctoral degree on low-coordinate complexes with sterically demanding amide ligands with Kit Cummins. He then moved to UC Berkeley, working with Ken Raymond on the development of water-soluble gadolinium chelators for use as MRI contrast agents.

Johnson began his career at Harvey Mudd College in 1999, receiving tenure in 2005 and promotion to full professor in 2011. He has enjoyed sabbatical research appointments at both Caltech and the Kyoto Institute of Technology (Kyōto Kōgei Sen'i Daigaku). He conducts research in the field of ligand design for early transition metals and asymmetric catalysis. His research group is currently developing chiral bi- and tridentate aminoalcohol ligands and the asymmetric hydroamination of aminoallenes. He has worked with more than 52 undergraduate students and published 20 manuscripts. In addition to his chemical research program, he has also conducted research and published on pedagogy in inorganic chemistry. He is a co-founder and member of the Leadership Council for the Interactive Online Network of Inorganic Chemists and its website, the Virtual Inorganic Pedagogical Electronic Resource (www.ionicviper.org).

Dr. Han-Jie Zhou - Cleave Biosciences

Dr. Zhou has over 15 years of experience in pharmaceutical research and development of small molecule drugs in oncology, immunology and other diseases, medicinal and process chemistry. Currently Dr. Zhou is a Senior Director of Chemistry at Cleave Biosciences and responsible for discovery chemistry and drug production as well as global outsourcing, and he also serves as a project leader and a member of the leadership team. Dr. Zhou has made a substantial contribution to its lead drug candidate, CB-5083, a first-in-class, oral inhibitor of p97, a critical enzyme that controls various aspects of protein homeostasis.

Prior to joining Cleave Biosciences in 2011 as Director of Chemistry and participating in the Series A financing, he was an Associate Director at PPD. Dr. Zhou oversaw multiple projects and managed 60+ scientists. From 2004 - 2009, Dr. Zhou worked at Proteolix as a Group Leader. Dr. Zhou played substantial role in the discovery of Carfilzomb. He also served as a Program Leader to lead the discovery of oprozomib, a novel oral proteasome inhibitor and oversaw the chemistry effort that leads to the discovery of ONX0914, an immunoproteasome-selective inhibitor. Prior to Proteolix, Dr. Zhou was employed at Cytokinetics and contributed to the discovery of Omecamtiv mecarbil.

Dr. Zhou was trained as a Postdoctoral Associate in Professor Robert Holton's laboratory at Florida State University and earned his Ph.D. degree in organic chemistry from the University of

Fribourg, Switzerland and M.S. degree from Nankai University, China. He is a named inventor and author on over 30 patents and publications.

Dr. Laura E. Fernandez - ACS Nano & Nano Letters Managing Editor

Dr. Laura E. Fernandez received her Ph.D. in Chemistry from Pennsylvania State University where she studied proton-coupled electron transfer reactions in nickel electrocatalysts on a theoretical and computational level. Following graduation, she joined the University of Minnesota as a Postdoctoral Associate and Scientific Coordinator where her focus was on force field development for metal-organic frameworks and computational investigations of atomic layer deposition in metal-organic frameworks. In her current role at ACS, Dr. Fernandez serves as Managing Editor for ACS Nano and Nano Letters.

Dr. Lingling Chen - Assistant Managing Editor for JACS

Lingling Chen has been the Assistant Managing Editor for the Journal of the American Chemical Society for over 7 years. In 1999, she graduated from Xiamen University in China where she earned a B.S. in organic chemistry with a minor in computer science. After graduation, she was recommended to enter the master program at the same university without exams, working on methane aromatization. She then went to work for a drug company for a year and decided to continue her education abroad. Coming to the United States in 2003, she obtained her Ph.D. in solid state NMR at the University of California, Riverside in 2008, under the supervision of Leonard Mueller, and did a postdoc at University of California, Berkeley with Alexander Pine for a short period. She joined American Chemical Society after and has been working closely with the Editor to help position the journal to best serve the chemical community.

2017 UCCS Organizing Committee

Seth Cohen PhD	UC San Diego	Professor (initial chair)
Andrea Carlini	UC San Diego	Graduate Student (Co-chair)
Melissa Morgan	UC Riverside	Graduate Student (Co-chair)
Yuyong (Thomson) Ma PhD	UC San Diego	Postdoctoral Researcher
Mary Garner	UC Berkeley	Graduate Student
Fei Tong	UC Riverside	Graduate Student
Elaine Qian	UC Los Angeles	Graduate Student
Irene Cai	UC Berkeley	Graduate Student
Bernard Parker	UC Berkeley	Graduate Student
Mikey Wojner	UC Irvine	Graduate Student
Abe Pressman	UC Santa Barbara	Graduate Student
Shannon Lee	UC Davis	Graduate Student
John Karnes	UC Santa Cruz	Graduate Student

Thank you to everyone who helped make the 2017 UC Chemical Symposium a success!

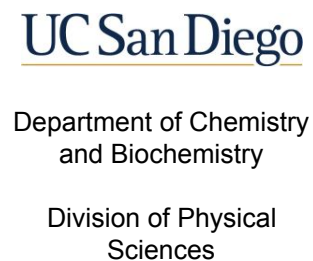
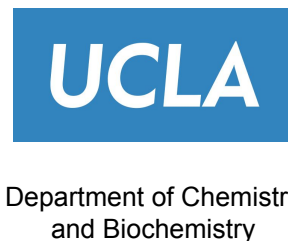
Future 2018 UC Chemical Symposium Committee Selection

If you would like to help organize the next UCCS, please fill out our post-conference evaluation and indicate that you would be interested in participating. Alternatively you may email Melissa Morgan (mmorg005@ucr.edu), Andrea Carlini (acarlini@ucsd.edu), or Seth Cohen (scohen@ucsd.edu).

Sponsors

We are very grateful to all of our sponsors for their support and making this conference possible.

University of California:



Government and nonprofit organizations:



Industry sponsors:



www.allergan.com



www.celgene.com
Celgene Educational
Grant

CORNING

www.corning.com



www.effector.com

Lightning Talk Schedule

Pineview Room
March 27th 8:00 pm

Number	Name	UC	Abstract Title
1	Kathryn Newton	Davis	The Effect of Dichalcogenide Ligand Capping on Germanium Nanoparticle Band Gap
2	Khanh Nguyen	Riverside	Foam Cell Formation in Atherosclerosis when Endoplasmic Reticulum is Under Stress
3	Noelle Catarineu	Berkeley	Reticular Chemistry of Asymmetric Organic Linkers and One-Dimensional Secondary Building Units in Metal-Organic Frameworks
4	Robin Moeller-Gulland	Los Angeles	Visualization and Optimization of the Heterogeneously Catalyzed Propylene Hydrogenation via MRI
5	Michael Boreen	Berkeley	Synthesis and Reactivity of a Homoleptic Uranium(III) Tris(aryl) Complex
6	Faben Cruz	Irvine	Stereodivergent Coupling of Aldehydes and Alkynes via Synergistic Catalysis using Rh and Jacobsen's
7	Nicholas Settineri	Berkeley	Chalcogenide Insertion Reactivity of a Thorium-Alkyl Complex Supported by Amidinate Ligands
8	Jan Riedel	Irvine	Cobalt-Catalyzed Hydroacylation: Desymmetrization of Quaternary Centers to afford Cyclobutanones
9	Michael Wojnar	Irvine	Exploration of M[SNS] ₂ as Redox-Active Metalloligands in Heteromultimetallic Systems
10	Xi Chen	Merced	pH Sensing with Silicon Nanoribbon Field Effect Transistors Incorporating Carbon Nanotube Porins
11	Magi Mettry	Riverside	Functionalized Self-Folding Scaffolds for Hydrocarbon Recognition and Biosensors
12	Stephen von Kugelgen	Berkeley	Electronics of Carbyne Transfer: Functional Mo Carbynes and Their Role in ROAMP
13	Luis Jimenez	Riverside	Asymmetrical Flow Field-Flow Fractionation of miRNA Carriers for localization of miRNA Biomarkers
14	Jose Alvarenga	Merced	Investigating Transition Metal-Catalyzed H Atom Transfer from Water to Unsaturated C-C Bonds as Mediated by Borosilane Reagents
15	Andrea Luthi	San Diego	Enzyme-Responsive Polymeric Micelles with Hydrolysable Cores for Targeted Therapeutic Delivery
16	John Karnes	Santa Cruz	Water Transfer at the Immiscible Water/Organic Interface
17	Nanzhi Zang	San Diego	Polymer-Based Retrograde Nano-Tracers as Tools for Neuroanatomy

Number	Name	UC	Abstract Title
18	Swagat Sahu	San Diego	Developing Polymeric Platforms for the Enhancement of Molecular Catalysts via Secondary Sphere Effects
19	Emily Moses	Riverside	Room Temperature Emission From Organic Triplet States

Oral Presentation Schedule

Room 1: Pineview Room

March 28th

Session Chair: Mary Garner

Time	Sub	UC	Name
9:00	Organic	Irvine	Alexander Karns
9:20	Organic	Los Angeles	Janice Lin
9:40	Organic	Berkeley	Peter Waller
10:00	Organic	Merced	Amir Keshavarz
10:20	Organic	Los Angeles	Tim Chung
10:40	coffee break		
11:00	Inorganic	Berkeley	Jessica Ziegler
11:20	Inorganic	San Francisco	Gozde Ulas
11:40	Inorganic	Santa Barbara	Nathaniel Hartmann

Session Chair: Bernard Parker

Time	Sub	UC	Name
4:00	Organic	Berkeley	Christopher Hill
4:20	Organic	San Diego	Walter Frauman V
4:40	Biochemistry	Merced	Joel Heisler
5:00	coffee break		
5:20	Biochemistry	San Diego	Naneki Collins-McCallum
5:40	Organic	Irvine	Zhiwei Chen

March 29th

Session Chair: Andrea Carlini

Time	Sub	UC	Name
9:00	Biochemistry	Santa Cruz	Shankar Shastry
9:20	Biochemistry	Davis	Andrea Coleman
9:40	Chemical biology	San Diego	Jeffrey Mindrebo
9:40	coffee break		
10:00	Chemical biology	Los Angeles	Leibniz Hang
10:20	Biochemistry	Santa Barbara	Abe Pressman

Room 2: Cedar Room**March 28th**

Session Chair: Melissa Morgan

Time	Sub	UC	Name
9:00	Physical	Merced	David Morgan
9:20	Theoretical/computational	Los Angeles	Song Yang
9:40	Physical	Irvine	Joel Langford
10:00	Theoretical/computational	Davis	Shruba Gangopadhyay
10:20	Theoretical/computational	Santa Cruz	Tyler Smart
10:40	coffee break		
11:00	Analytical	Riverside	Kristy McKeating
11:20	Analytical	Santa Barbara	David Cao
11:40	Analytical	Riverside	Yichong Fan

Session Chair: John Karnes

Time	Sub	UC	Name
4:00	Physical	Riverside	Connor Easley
4:20	Physical	Santa Cruz	Mauricio Rojas-Andrade
4:40	coffee break		
5:00	Physical	Berkeley	Xihan Chen
5:20	Physical	Merced	Jamie Grenland

March 29th

Session Chair: Fei Tong

Time	Sub	UC	Name
9:00	Analytical	Riverside	Samuel Hinman
9:20	Materials/nano	Santa Cruz	Will Hollingsworth
9:40	Inorganic	Davis	Joshua Greenfield
10:00	coffee break		
10:00	Materials/nano	San Diego	Alexander Roloff
10:20	Materials/nano	Irvine	David Dibble

Poster Presentations

Lakeview Room

March 28th 8:00 pm

Poster No.	Presenting Author	Sub-discipline	UC	Title
1	Alexander Lu	Organic	Irvine	Regioselective Hydroamination of Conjugated Dienes Through Rh-Catalysis
2	Alicia Vazquez	Chemical biology	Merced	NMR investigation of the fold-switching mechanism of the cyanobacterial circadian clock protein KaiB
3	Azin Saebi	Chemical biology	Los Angeles	Engendering Atomically Precise Three-Dimensional Complexity Using Carborane-Based Pharmacophores
4	Chad Cruz	Physical	Riverside	Utilizing Intermolecular States for Photon Upconversion in Molecular Crystals of Rubrene
5	Chengqiang Gao	Materials/nano	Irvine	In Situ Synthesis of Block Copolymer Nanoassemblies via Polymerization-Induced Self-Assembly in Poly(ethylene glycol)
6	Cy Vernon Credille	Organic	San Diego	Potent influenza endonuclease inhibitors developed from metal-binding pharmacophore library screen
7	Daniel Kim	Organic	Irvine	Cobalt-Catalyzed Hydroacylation: Synthesis of Cyclobutanones
8	Daniel Robert Crocker	Analytical	San Diego	Using Carbon Isotopic Analysis to Track the Effects of Ocean Biological Activity on Sea Spray Aerosol Chemical Composition
9	Diane Nguyen Le	Organic	Irvine	Molecular recognition of peptides in Rh-catalyzed hydrogenation: Evidence for a Unidirectional Reduction
10	Emilia Pecora de Barros	Biochemistry	San Diego	Electrostatic interactions as mediators in the allosteric activation of PKA R1alpha
11	Alexander Roloff	Materials/nano	San Diego	Micellar Thrombin-Binding Aptamers: Reversible Nanoscale Anticoagulants
12	Hyoungmyung Park	Inorganic	Riverside	Synthesis, characterization and electrocatalytic performance of binary transition metal borides
13	Jan Phillip Scheifers	Inorganic	Riverside	Evolution of the Magnetic Properties in the Series M ₂ FeB ₂ (M = V, Nb, Mo, Ta and W)
14	Jessi Hartman	Theoretical	Davis	Ab initio simulations of the interaction of water with nitrogen-doped graphene

Poster No.	Presenting Author	Sub-discipline	UC	Title
15	Jocelyn G. Carballo	Analytical	Riverside	The Application of Silica and Metal Oxide Microfibers for Nucleic Acid Extractions
16	Jose Navarrete	Materials/ nano	Santa Barbara	Elucidating nano-electrostatics through effective-medium approximations
17	Jose Luis Montano	Biochemistry	Riverside	Specific composition dependence of molecular chaperones DnaJ/HSP40 for productive protein-substrate interaction
18	Joseph Michael Palomba	Inorganic	San Diego	Investigation of polymer ligand architecture in polyMOF growth
19	Juno Van Valkenburgh	Organic	Los Angeles	Development of Ribonucleotide reductase inhibitors for efficacy against solid tumors
20	Kent Ozan Kirlikovali	Inorganic	Los Angeles	Blue phosphorescent zwitterionic Ir(III) complexes featuring weakly coordinating ligands
21	Nathan Thomas Tierce	Physical	Riverside	Structural Dependence on the Dissociation Rate of Photodimers under Isotropic Pressure
22	Bernard Parker	Inorganic	Berkeley	Thermodynamics and structural studies of amidoxime ligands with metals in seawater
23	Pritam Shankhari	Inorganic	Riverside	Synthesis and characterization of $Hf_3Ru_5-xM_xB_2$ ($M = Fe, Co, Ni$) –towards rare-earth-free magnets
24	Rafal Miroslaw Dziejczak	Inorganic	Los Angeles	All-ionic Boron Cluster-based Ionic Liquids for Reversible Electrodeposition
25	Raymond Francis Gamache	Organic	Los Angeles	Fluorination of aryl stannanes using nucleophilic fluoride
26	Samuel S. Hinman	Analytical	Riverside	DNA Linkers and Diluents for Stable and Specific Gold Nanoparticle Bioconjugates in Multiplexed Assay Development
27	Sean Patrick Cray	Theoretical	Santa Barbara	A Novel Field-Theoretic Model of Lipid Bilayers with Applications to Elastic Constant Renormalization
28	Shen Zhang	Chemical biology	Riverside	Genetically Encoded Sensors for Zinc Ion
29	Shi Chen	Biochemistry	San Diego	A Self-Assembling RNA Nanoprism

Poster No.	Presenting Author	Sub-discipline	UC	Title
30	Xiao-Hui Yang	Organic	Irvine	Rhodium-Catalyzed Hydrofunctionalization: Enantioselective Coupling of Indolines and 1,3-Dienes
31	Xuesong Wu	Organic	Irvine	C(sp ³)–H/C(sp ³)–H Cross-Dehydrogenative Coupling of Olefins with AlkylNitriles
32	Shannon Lee	Materials/ nano	Davis	Synthesis and Thermoelectric Properties of Pristine and Doped GeAs
33	Youhong Zeng	Physical	Merced	Extinction Coefficient, Oscillator Strength and Radiative Lifetime of II–VI Semiconductor Nanocrystal
34	Yuemei Zhang	Inorganic	Riverside	Magnetic Ordering, Frustration and Possible Spin Liquid State from 1D Cr ³⁺ -Triangles in the TiCrIr ₂ -xOsxB ₂ Series
35	Yun-Chiao Yao	Physical	Merced	Single-Channel Measurements of Ionic Transport through Sub-Nanometer Carbon Nanotube Porins
36	Bubwoong Kang	Organic	Irvine	The First Intermolecular Alkyne Carboamination Enabled by a Pd/MandyPhos Catalyst: A Rapid Access to Neolignan-type Natural Products
37	Yuyong Ma	Organic	San Diego	Design and Synthesis of a library of 8-quinolinethiol based Rpn11 inhibitors.
38	Fei Tong	Organic	Riverside	Photomechanical Molecular Crystals based on Anthracene Derivatives