

PACIFICHEM 2015

Honolulu, Dec. 15–20

ALOHA! The 2015 International Chemical Congress of Pacific Basin Societies (Pacifichem 2015, PAC CHEM2015) is the seventh in the series of successful congresses founded in 1984. The congress will be held in Honolulu on Dec. 15–20. The congress theme is “Chemical Networking: Building Bridges across the Pacific.” Pacifichem 2015 is sponsored jointly by the American Chemical Society (the host society), the Canadian Society for Chemistry, the Chemical Society of Japan, the New Zealand Institute of Chemistry, the Royal Australian Chemical Institute, the Korean Chemical Society, and the Chinese Chemical Society. Peter J. Stang of the University of Utah is the chair of the congress. Steven Holdcroft of Simon Fraser University and Eiichi Nakamura of the University of Tokyo are the two congress vice chairs, representing the Canadian Society for Chemistry and the Chemical Society of Japan, respectively.

The technical program comprises 11 topical areas: Analytical Chemistry; Inorganic Chemistry; Macromolecular Chemistry; Organic Chemistry; Physical, Theoretical & Computational Chemistry; Agrochemistry, Environmental & Geochemistry; Biological Chemistry; Materials & Nanoscience; Chemistry of Clean Energy Conversion, Storage & Production; Bench to Bedside: Chemistry of Health Care; and Connecting Chemistry to Society. More than 17,000 papers will be presented in either oral or

poster formats. The online program is currently available at www.pacifichem.org.

REGISTRATION

All delegates must register in order to attend the congress and technical sessions. Early registration closes on Oct. 15; therefore delegates are encouraged to register prior to the deadline as standard registration begins on Oct. 16 and will reflect on-site registration fees. The Chemical Society of Japan has entered into an agreement with Nippon Travel Agency to assist delegates from Japan with travel, housing, and registration arrangements. Visit www.pacifichem.org for further details.

Registration fees include attendance to the opening ceremony and reception, the Pacifichem Lecture, the closing reception, all the technical sessions, and the exposition, as well as access to meeting mail and use of the shuttle services.

REGISTRATION PROCEDURES. Delegates can register in one of several ways: via the Internet at www.pacifichem.org/registration; by phone at (800) 251-8629 (U.S. toll-free) or (508) 743-0192 (international); by fax at (508) 743-9681; or by mail at Pacifichem 2015 Customer Service, c/o Convention Data Services, 107 Waterhouse Rd., Bourne, MA 02532.

Registration credentials (badge and receipt) will be mailed to attendees from the U.S. and Canada who register prior to Oct. 15. Please allow at least four weeks to process all mailed requests. All other registrants will need to pick up their registration credentials on-site at one of the registration areas located at the Hawaii Convention Center, the Sheraton Waikiki, the Hilton Hawaiian Village Mid-Pacific Conference Center, and the Waikiki Beach Marriott. Pacifichem 2015 program booklets will be available on-site in the registration areas.

ON-SITE REGISTRATION. Delegates may also register for the congress on-site. Satellite registration will be located at the Hawaii Convention Center (main lobby), the Hilton Hawaiian Village (Coral

Lounge and lobby), the Sheraton Waikiki (Ballroom foyer, second floor), and the Waikiki Beach Marriott (tour lobby, Paoakalani Tower, first floor). Program booklets and badge cases will be located in all registration areas. Registration hours are Monday, Dec. 14, 3–7 PM and Tuesday, Dec. 15, through Sunday, Dec. 20, 7:30 AM–5:30 PM.

MEETING MAIL. Computer terminals with Internet connections will be located at the Hilton Hawaiian Village (Coral 3), Waikiki Beach Marriott (lobby), Sheraton Waikiki (ballroom foyer, second floor), and the Hawaii Convention Center (third floor).

HOUSING

Pacifichem 2015 has negotiated excellent rates with a wide selection of hotels located in Waikiki Beach. Orchid Event Solutions is the official housing bureau for the congress. Pacifichem 2015 only endorses booking hotel accommodations through Orchid Event Solutions and Nippon Travel Agency (NTA). Delegates who book their reservations through Orchid Event Solutions and NTA will receive Pacifichem 2015 discounted rates and complimentary Internet access in the sleeping rooms.

The deadline for housing reservations is Nov. 13. Only a select few hotels will have availability after the deadline, and hotels may charge higher rates.

Reservations can be made online at www.pacifichem.org; by calling Orchid Event Solutions at (866) 847-8570 (U.S./Canada only) or (801) 505-4140 (international), Monday through Friday, 7 AM–6 PM MT; or by fax with valid credit card to (801) 355-0250 and mail to Pacifichem

CLASSIFICATION OF REGISTRANT	FEE	
	EARLY REGISTRATION FEES JUNE 25–OCT. 15	STANDARD/ON-SITE FEES OCT. 16–DEC. 20
Member of sponsoring or participating societies ^a	\$725	\$825
Nonmember	\$850	\$950
Student ^b	\$250	\$250
Guest	\$80	\$80

NOTE: All fees are in U.S. dollars. **a** Member fees are available to the members of the seven cosponsoring societies and the official participating organizations. **b** Student fees are available to full-time students enrolled in an undergraduate or a graduate degree program; postdoctoral fellows are not considered to be students.

Registration	36
Housing	36
Travel	37
Visas	37
Transportation	37
Official Participating Organizations	37
Tours	39
Speakers' Information	39
Social Events	39
Hotel Reservation Form	40
Workshops	41
Poster Sessions	41
Exposition	41
Programs and the Mobile App	41
Congress Organizing Committee	41
Registration Form	42

Housing, c/o Orchid Event Solutions, 175 South West Temple, Suite 30, Salt Lake City, UT 84101.

Confirmations will be sent by Orchid Event Solutions rather than individual hotels. Reservation changes and cancellations can be made without penalty until Nov. 13. Hotels do not have individual reservations or credit card guarantees at this time. Reservations canceled after Nov. 13 will be subject to a \$25 cancellation fee by Orchid Event Solutions for each canceled reservation. One night's room and tax will be charged by the hotel for reservations canceled within 72 hours of the arrival date. Please refer to your assigned hotel's cancellation policy; early departures may incur a penalty.

SHUTTLE SERVICES. Complimentary shuttle service will be provided each day of the congress. Shuttles will operate every 15 minutes during non-rush-hour periods and every 30 minutes during rush-hour periods beginning Dec. 15 (7 AM–5:30 PM then 5:30 PM–10:30 PM to the Opening Ceremony only). Shuttles will continue running 7 AM–10 PM, Dec. 16–19; 7 AM–noon, Dec. 20; and 1 PM–4 PM, Dec. 20, to the Closing Ceremony only.

TRAVEL

Pacifichem has partnered with ATC Travel Center as the official airline and car rental provider for 2015. Discounts include up to 10% off Delta and United flights and other low-fare options on a variety of airlines. ATC provides 24/7 access with mobile options for itinerary status updates.

These discounts apply to travel between Dec. 12 and Dec. 23 (Honolulu). Restrictions apply. Service fees apply to ticketed reservations. A \$9.00 service fee will apply to reservations made online at www.atcmeetings.com/pacifichem. You may also call your own agency or the vendors directly and refer to the discount codes for United or Delta Air Lines.

Reservations for United Airlines can be made by calling (800) 426-1122 and referring to Z code ZTJB and agreement code 691622. For reservations with Delta Air Lines, call (800) 328-1111 and refer to code NMJYR.

Hertz, Enterprise, and Dollar Rent A Car are offering discounted rates for Pacifichem 2015. Contact Hertz at (800) 654-2240, and refer to code CV#022Q7358; for Enterprise, call (800)

593-0505, using code 32H7476; and for Dollar Rent A Car, call (800) 800-3665, using code CMO679.

VISAS

Pacifichem 2015 follows the same guidelines for visa application as the American Chemical Society, the host society for Pacifichem 2015. If you need a visa to attend Pacifichem 2015, you should start the visa application early. For some visa applications, the process could take months to complete, depending on the candidate's country of origin and certain visa restrictions.

For complete information on applying for a visa to enter the U.S. and attend Pacifichem 2015, please see "The U.S. Visa Application Process" under "Meeting Logistics" at www.pacifichem.org.

TRANSPORTATION

Delegates arriving at the Honolulu International Airport will arrive at the main terminal located on the second level. Proceed to the escalator or elevator down to

Official Participating Organizations

Australia: Australian Peptide Association

Brunei: Brunei Darussalam Institute of Chemistry

Canada: Canadian Society for Chemical Engineering

China: Hong Kong Chemical Society

India: Amity Institute for Environmental Toxicology, Safety and Management (AIETSM)

Indonesia: Himpunan Kimia

Japan: Catalysis Society of Japan; Combustion Society of Japan; Japan Association for International Chemical Information; Japan Coating Technology Association; Japan Explosives Society; Japan Oil Chemists' Society; Japan Society for Bioscience, Biotechnology, and Agrochemistry; Japan Society of Electromagnetic Wave Energy Applications (JEMEA); Japan Society for Environmental Chemistry; Japan Society for Molecular Science; Japan Society for Safety Engineering; Japan Society of Colour Material; Japan Society of Nutrition and Food Science; Japan Society of Soil Science and Plant Nutrition; Japan Technical Association of the Pulp and Paper Industry; Society of Environmental Science, Japan; Society of Sea Water Science, Japan; Ceramic Society of Japan; Electrochemical Society of Japan; Fullerenes, Nanotubes and Graphene Research Society; Japan Institute of Energy; Japan Petroleum Institute; Japan Society for Analytical Chemistry; Japan Society of Applied Physics; Japan Wood Research Society; Japanese Photochemistry Association;

Japanese Society for Food Science and Technology; Japanese Society for the History of Chemistry; Japanese Society of Carbohydrate Research; Japanese Society of Printing Science and Technology; Pharmaceutical Society of Japan; Rare Earth Society of Japan; Society for Biotechnology, Japan; Society of Chemical Engineers, Japan; Society of Fiber Science and Technology, Japan; Society of Photography and Imaging of Japan; Society of Polymer Science, Japan; Society of Rubber Science and Technology, Japan; Society of Synthetic Organic Chemistry, Japan; Surface Finishing Society of Japan

Malaysia: Institut Kimia Malaysia, Kuala Lumpur

Mexico: Sociedad Quimica de Mexico (SQM)

Nepal: Nepal Chemical Society

Papua New Guinea: The Institute of Chemists, PNG (ICPNG)

Philippines: Integrated Chemists of the Philippines

Republic of Korea: Korean Society of Radiopharmaceuticals and Molecular Probes (KSRAMP), Korean Society of Water and Wastewater (KSWW)

Singapore: Singapore National Institute of Chemistry

Sri-Lanka: Institute of Chemistry Ceylon

Taiwan: Chemical Society Located in Taipei

Thailand: Chemical Society of Thailand

United States: American Peptide Society; Biotechnology Industry Organization (BIO); International UV Association (IUVA)

FINAL PROGRAM



PARTICIPATING HOTEL LIST

For best availability, make your reservation via the Internet at www.pacifichem.org or by phone at (866) 847-8570.

**All Pacifichem 2015 room rates include complimentary in-room Internet and fitness center access. Room rates below do not include 13.96% room tax (subject to change). **Additional fees may apply: If a rollaway bed is required, if there are pets in guest rooms, and if smoking occurs in guest rooms (all rooms are nonsmoking rooms). All hotels will have access to a shuttle route.*

HOTELS	Single	Double	Triple	Quad	**Max Guests/Room	Child Under Age Free	Childcare List	Parking	Room Service	** Pets	Pool	ADA	Green Hotel
1.a Ala Moana Hotel – Waikiki Tower	\$169	\$169	\$219	\$269	4	17	No	\$20/\$25	No	No	Yes	Yes	Yes
1.b Ala Moana Hotel – Kona Tower	\$149	\$149	N/A	N/A	2	17	No	\$20/\$25	No	No	Yes	Yes	Yes
2.a Courtyard by Marriott Waikiki – Standard Room	\$179	\$179	N/A	N/A	2	17	No	\$35	No	No	Yes	Yes	No
2.b Courtyard by Marriott Waikiki – Deluxe Room	\$189	\$189	\$214	\$239	4	17	No	\$35	No	No	Yes	Yes	No
2.c Courtyard by Marriott Waikiki – One Bedroom Suite	\$199	\$199	\$224	\$249	4	17	No	\$35	No	No	Yes	Yes	No
3 DoubleTree by Hilton Alana Waikiki	\$195	\$195	\$235	\$275	4	17	No	\$30	Yes	Service	Yes	Yes	Yes
4 Embassy Suites Waikiki	\$289	\$289	\$349	\$409	4	18	No	\$35	Yes	Service	Yes	Yes	Yes
5 Hawaii Prince Hotel Waikiki	\$195	\$195	\$255	N/A	3	18	Yes	\$22/\$28	Yes	Service	Yes	Yes	Yes
6.a Hilton Hawaiian Village – Resort View	\$220	\$220	\$270	\$320	4	17	Yes	\$27/\$33	No	Service	Yes	Yes	Yes
6.b Hilton Hawaiian Village – Ocean View	\$255	\$255	\$305	\$355	4	17	Yes	\$27/\$33	No	Service	Yes	Yes	Yes
6.c Hilton Hawaiian Village – Deluxe Ocean Rainbow	\$285	\$285	\$335	\$385	4	17	Yes	\$27/\$33	No	Service	Yes	Yes	Yes
6.d Hilton Hawaiian Village – Ocean View Ali'i	\$310	\$310	\$360	\$410	4	17	Yes	\$27/\$33	No	Service	Yes	Yes	Yes
7.a Hilton Waikiki Beach – City or Mountain View	\$189	\$189	\$229	\$269	4	17	Yes	\$25	Yes	Service	Yes	Yes	Yes
7.b Hilton Waikiki Beach – Ocean View	\$239	\$239	\$279	\$319	4	17	Yes	\$25	Yes	Service	Yes	Yes	Yes
8 Holiday Inn Waikiki Beachcomber	\$189	\$189	\$239	\$289	4	19	No	\$35	No	Service	Yes	Yes	Yes
9 Hyatt Place Waikiki	\$239	\$239	\$254	\$269	4	17	No	\$25/\$30	Yes	Yes	Yes	Yes	Yes
10.a Hyatt Regency Waikiki Beach – City/Mountain View	\$230	\$230	\$305	\$380	4	18	Yes	\$30/\$35	Yes	Yes	Yes	Yes	Yes
10.b Hyatt Regency Waikiki Beach – Ocean View	\$250	\$250	\$325	\$400	4	18	Yes	\$30/\$35	Yes	Yes	Yes	Yes	Yes
11.a Outrigger Reef Waikiki Beach – Standard View	\$229	\$229	\$304	N/A	3	17	Yes	\$35	Yes	Service	Yes	Yes	Yes
11.b Outrigger Reef Waikiki Beach – Partial Ocean View	\$259	\$259	\$334	N/A	3	17	Yes	\$35	Yes	Service	Yes	Yes	Yes
12 Outrigger Waikiki Beach	\$235	\$235	\$305	\$380	4	17	Yes	\$35	Yes	Service	Yes	Yes	Yes
13 Pacific Beach Hotel	\$199	\$199	\$249	\$299	4	17	No	\$25/\$33	Yes	Service	Yes	Yes	Yes
14 Ramada Plaza Waikiki	\$149	\$149	\$179	\$209	4	21	No	\$25	No	No	Yes	Yes	Yes
15 Royal Hawaiian	\$275	\$275	\$375	\$475	4	17	Yes	\$25/\$33	Yes	No	Yes	Yes	No
16.a Sheraton Princess Kaiulani – City View	\$165	\$165	\$215	\$265	4	17	Yes	\$25	Yes	No	Yes	Yes	No
16.b Sheraton Princess Kaiulani – Ocean View	\$180	\$180	\$230	\$280	4	17	Yes	\$25	Yes	No	Yes	Yes	No
17.a Sheraton Waikiki – City View	\$229	\$229	\$304	\$379	4	17	Yes	\$25/\$33	Yes	No	Yes	Yes	No
17.b Sheraton Waikiki – Mountain View	\$245	\$245	\$320	\$395	4	17	Yes	\$25/\$33	Yes	No	Yes	Yes	No
17.c Sheraton Waikiki – Partial Ocean View	\$259	\$259	\$334	\$409	4	17	Yes	\$25/\$33	Yes	No	Yes	Yes	No
17.d Sheraton Waikiki – Ocean View	\$279	\$279	\$354	\$429	4	17	Yes	\$25/\$33	Yes	No	Yes	Yes	No
18.a The Modern Honolulu – City View	\$269	\$269	\$334	\$399	4	18	Yes	\$28	Yes	Yes	Yes	Yes	No
18.b The Modern Honolulu – Partial Ocean View	\$289	\$289	\$354	\$419	4	18	Yes	\$28	Yes	Yes	Yes	Yes	No
19 Trump International Hotel Waikiki	\$369	\$369	\$469	\$569	4	19	Yes	\$33	Yes	Service	Yes	Yes	Yes
20.a Waikiki Beach Marriott – City View	\$219	\$219	\$259	\$299	4	17	No	\$32/\$37	Yes	Service	Yes	Yes	Yes
20.b Waikiki Beach Marriott – Partial Ocean View	\$239	\$239	\$279	\$319	4	17	No	\$32/\$37	Yes	Service	Yes	Yes	Yes

Orchid Event Solutions is the ONLY designated housing provider for Pacifichem 2015. Beware of companies misrepresenting themselves as affiliated with Pacifichem.



the ground floor to access baggage claim areas and ground transportation. Visitor information booths are located in gate and baggage claim areas to assist arriving passengers.

TAXI. The taxi fare from the airport to the hotels in Waikiki is approximately \$40 to \$45 one-way during non-rush-hour periods in addition to a baggage charge of 50 cents per bag. Fare is by meter only.

EXPRESS SHUTTLE. Roberts Hawaii Express Shuttle provides affordable transportation from the Honolulu International Airport to hotels along Oahu for a discounted rate of \$12.80 (one-way) and \$24 (round-trip). Roberts Hawaii airport representatives will meet and greet attendees

upon arrival and assist with their luggage at the baggage claim area. Transportation fee includes two pieces of luggage and a personal carry-on. Golf bags may be considered one piece of luggage. Additional luggage of more than two pieces per person will cost an additional fee. Because of limited availability, Roberts Hawaii requires that ADA vehicle reservations be made a minimum of 48 hours prior to the date and time of service. Reservations for transportation can be made by calling the reservations office at (800) 831-5541 (U.S./Canada) between 7 AM and 9 PM HT or online at www.robertshawaii.com/pachem2015 using promo code PACHEM15. Advanced reservations are required.

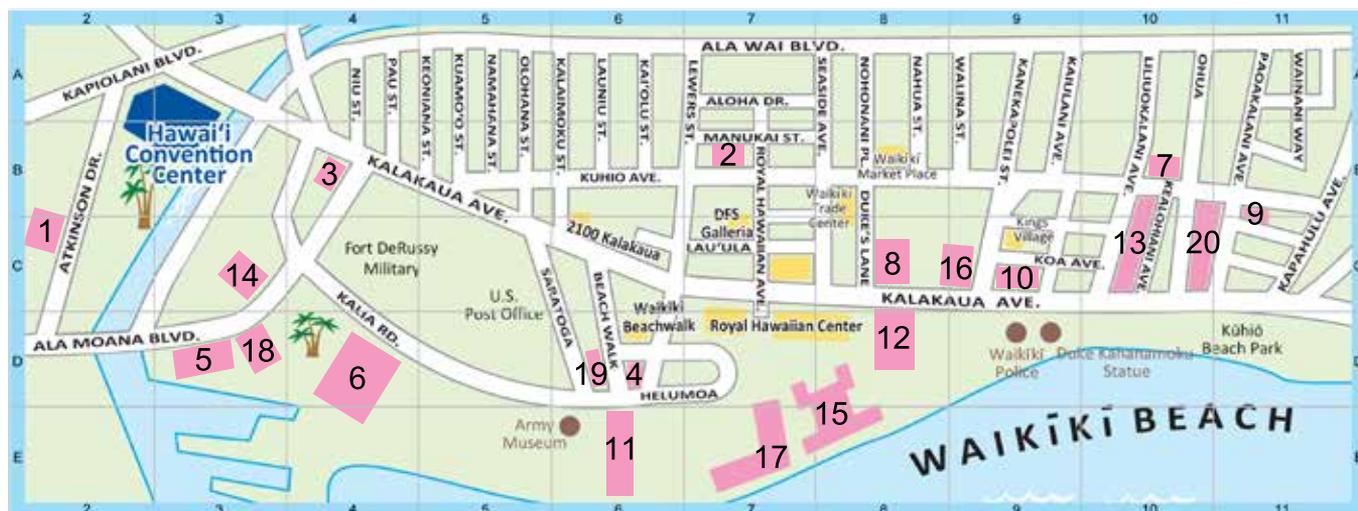
A 10% service fee will be charged for credit card booking cancellations. There

will be no charge for cancellations made by noon on the day prior to the date of the scheduled service. Round-trip scheduled service is defined as the first date of the round-trip booking. Thereafter, a full charge will apply. No refund will be given for cancellation notices within 24 hours of the date and time of service, and no-shows are subject to the full charge.

Should you have questions, e-mail Roberts Hawaii at airport.shuttle@robertshawaii.com or call (800) 831-5541 (U.S./Canada) or (808) 441-7800.

CITY BUS: TheBus. The City & County of Honolulu provides an island-wide bus transportation system that serves Honolulu International Airport. For more information, contact customer service

Pacifichem 2015 Hotel Map



- | | |
|---|--|
| 1 Ala Moana Hotel (C2) | 11 Outrigger Reef (E6) |
| 2 Courtyard by Marriott Waikiki Beach (B7) | 12 Outrigger Waikiki Beach Resort (D8) |
| 3 DoubleTree by Hilton Alana Waikiki (B4) | 13 Pacific Beach Hotel (C10) |
| 4 Embassy Suites Waikiki Beach Walk (D6) | 14 Ramada Plaza Waikiki (C3) |
| 5 Hawaii Prince Hotel Waikiki (D3) | 15 Royal Hawaiian (E8) |
| 6 Hilton Hawaiian Village Waikiki Beach (D4) | 16 Sheraton Princess Kaiulani (C9) |
| 7 Hilton Waikiki Beach (B10) | 17 Sheraton Waikiki (E7) |
| 8 Holiday Inn Resort Waikiki Beachcomber (C8) | 18 The Modern Hotel (D3) |
| 9 Hyatt Place Waikiki (B11) | 19 Trump International Waikiki Beach Walk (D6) |
| 10 Hyatt Regency Waikiki Beach (C9) | 20 Waikiki Beach Marriott (C10) |

for the city public transportation service TheBus at (808) 848-4500 or call (808) 848-5555 or visit www.thebus.org for route information.

Children up to five years of age ride free. The fare for children and students (six to 17 years old) is \$1.25, for adults is \$2.50, and for senior citizens (with reduced fare card or valid U.S. Medicare card) is \$1.00. A visitor's pass good for four consecutive days with unlimited use costs \$25.

TOURS

A 20% discounted rate on tours is being offered to attendees who book tours of Oahu, Maui, Kauai, and Hawaii Island through Roberts Hawaii. Reservations for tours can be made by calling (800) 831-5541 (U.S./Canada) between 7 AM and 9 PM HT or online at www.robertshawaiiexpress.com using promo code PACHEM15.

SPEAKERS' INFORMATION

Standard equipment included in all technical sessions will consist of a computer (with a wired mouse), LCD projector, screen, lighted podium with microphone, switcher, lapel microphone, and a laser pointer. Speaker ready rooms will be available on-site for presenters to view their presentations prior to presenting. Visit the Operations Office for information on the location of the speaker ready room at the various properties. All speaker ready rooms will be equipped with an LCD projector, computer, switcher, and screen.

SOCIAL EVENTS

TUESDAY, DEC. 15

**Opening Ceremony
6-7 PM**

Sheraton Waikiki Hotel, Hawaii Ballroom

**Pacifichem Lecture
7-8 PM**

Sheraton Waikiki Hotel, Hawaii Ballroom

**Opening Reception
8-10 PM**

Sheraton Waikiki Hotel and Royal Hawaiian Lawns

**Student Poster Competition
Noon-2 PM**

(Open to student poster finalists only)
Hawaii Convention Center, Kamehameha Exhibit Halls II & III

SUNDAY, DEC. 20

**Closing Reception
2-4 PM**

Hilton Hawaiian Village, Mid-Pacific Conference Center, Coral Ballroom

WORKSHOPS

WEDNESDAY, DEC. 16

Communicating Your Research Clearly & Effectively

7–9 PM

Hawaii Convention Center, Room 304A

The advancement of science depends on sharing research findings. Most scholarly journals are published in English, and it's important to be able to clearly communicate in these journals. In the past year, we edited over 10,000 physical science manuscripts for researchers throughout the world who don't speak English as a first language. In this workshop, we will discuss how to communicate research clearly and effectively in a scholarly manuscript. We will also cover mistakes commonly made when writing in English. Finally, we will conclude with a discussion on how to convey findings in a brief and effective way for a general audience.

Doing Business with the Defense Threat Reduction Agency (DTRA)

7–9 PM

Hilton Hawaiian Village, Kalia Tower, Lehua Suite

This workshop will focus on the DTRA's Research & Development Dire.

THURSDAY, DEC. 17

Applying to Graduate School in the U.S.: Workshop with Faculty

7–9 PM

Hawaii Convention Center, Room 303A

Many college students outside the U.S. are interested in attending graduate school in chemistry and biochemistry in the U.S. We will discuss common questions about the admissions process, expectations, and funding for graduate students in the U.S. Interested students are welcome to participate in a Q&A session.

Leadership & Following

7–9 PM

Hilton Hawaiian Village, Kalia Tower, Kahili Room

This workshop will reflect on some necessities of leadership in academia and industry: How to communicate with people? How to delegate, and how to listen? The

workshop will be led by Alexander Schiller, chemist and junior professor at the University of Jena, in Germany.

POSTER SESSIONS

All poster sessions will be held at the Hawaii Convention Center in Kamehameha Exhibit Halls I, II and III. Poster boards provided for all sessions will be 4 feet high by 8 feet wide. Presenters will be notified of their presentation times prior to the meeting. Push pins will be provided.

EXPOSITION

The exposition will be open on Tuesday, Dec. 15 (2 to 5 PM); Wednesday, Dec. 16 (11 AM to 5 PM); and Thursday, Dec. 17 (11 AM to 5:30 PM). The exposition is complimen-

tary to all registered attendees and will be located in the Coral Lounge & Ballroom at the Hilton Hawaiian Village.

Visit the exposition to pick up your souvenir for Pacificchem 2015. Be sure to stop by early as quantities are limited.

PROGRAMS AND THE MOBILE APP

Programs will be available on-site at the various properties where the technical sessions are located. In addition to the programs, delegates will also be able to download the Pacificchem 2015 mobile app. The mobile app will allow attendees to browse the program by topical area, by day, and by author to quickly find information about the scheduling and location of sessions, author presentations, and special events.

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TECHNICAL PROGRAM SUMMARY

Topic Areas

I. The Core Areas of Chemistry

01. ANYL - Analytical
02. INOR - Inorganic
03. MACR - Macromolecular
04. ORGN - Organic
05. PHYS - Physical, Theoretical & Computational

II. Multi- & Cross-Disciplinary Areas of Chemistry

06. ENVR - Agrochemistry, Environmental & Geochemistry
07. BIOL - Biological
08. MTLN - Materials & Nanoscience

III. Chemistry Solutions to Global Challenges

09. ENRG - Chemistry of Clean Energy Conversion, Storage & Production
10. HLTH - Bench to Bedside: Chemistry of Health Care
11. SCTY - Connecting Chemistry to Society

01. Analytical	A N Y L						
Marriott Waikiki Beach	T	W	T	F	S	S	
New Tools & Methodologies for the Characterization of Biomolecular Interactions (#15)	D	D	P	TA			
Development & Applications of Techniques for Electrochemical Analysis (#24)			D	D	TA		
Current Issues in Teaching Analytical Chemistry (#38)		D	TA				
Frontiers in Flow Injection Analysis & Related Techniques (#45)	D	D	TA				
Supercritical Fluid Chromatography (SFC) for Analysis & Purification (#53)			D	TE			
Advances in Analytical Ion Mobility Separations (#61)	D	D	TA				
On-site & In Vivo Instrumentation & Applications (#88)			D	TE			
Direct & Mediated Bioelectrocatalysis for Biosensors & Energy Conversion Applications (#89)				D	A	TE	
Comprehensive Multidimensional Separations (#90)					P	A	
Immunoanalysis: Applications & Trends for Environmental Monitoring & Human Health (#94)	D	D	TA				
Novel Analytical Probes for In Vivo Optical Functional Imaging (#115)				P	D	A	TE
Micro- & Nanofabricated Analytical Devices for Chemical, Biochemical & Biomedical Platforms (#129)	D	DE	AE	TA			
Marine & Freshwater Toxins: Detection, Structure & Pharmacology (#138)					D	A	TE
Innovation in Chemical Sensing & Separation Systems toward Advanced Chemical Analysis (#159)	D	TA					
Fundamentals & Applications of Atomic Spectrometry (#160)		D	D				
Optical Waveguide Techniques for the Analyses of Materials & Interfaces (#164)				D	A		TE
Paper-Based Analytical Devices for Point-of-Need Measurements (#213)					P	A	TE

A = Oral AM P = Oral PM E = Oral Eve D = Oral AM/PM
TA = Poster AM TE = Poster Eve

All posters sessions are located at the Hawaii Convention Center.

PROGRAM SUMMARY

01. Analytical (continued)	A N Y L					
Marriott Waikiki Beach	T	W	T	F	S	S
Symposium on Petroleomics: Molecular-Level Understanding of Petroleum for Environmental Science & Petroleum Engineering (#247)	D	TA				
Laser Ionization Mass Spectrometry (#274)				D		
Ultrasensitive Assays for Proteins & Protein Modifications (#287)			DE	E	TA	
Advanced Analytical Applications & Technical Developments of Soft X-Ray Spectroscopy (#303)				P	D	
Advances in FTIR Microspectroscopy: 3-D Tomography to Nanoscale Imaging (#315)			D	TE		
Magnetoanalytical Science: Separation, Characterization & Imaging (#320)	D	A	TE			
Harmonized Strategy of New UHPLC Implementation in Pharmaceutical R&D & CRO/CMO QC Laboratories (#353)				A		
Vibrational Spectroscopy: New Developments & Applications in Biological & Medical Sciences (#375)				D	TE	
Analytical Laser-Induced Breakdown Spectroscopy (LIBS) for Hazards Analysis, Forensics & Health (#379)					P	A
Bacterial Identification by Mass Spectrometry (#389)					A	TE
Advances in Analytical Techniques for Effective Food Allergen Management (#394)					P	A
Advances in Terahertz Spectroscopy & Imaging (#413)				D	TE	
(Bio-)Chemical / Electrochemical Sensors & Sensing Materials (#417)		P	D			
Plasmonic Materials for Chemical Analysis (#450)		P	D			
Organized Surfactant Assemblies in Chemical Analysis & Separation Science: Fifty Years Later (#457)					D	A
Analytical General Posters		TA				

02. Inorganic	I N O R					
Hilton Hawaiian Village	T	W	T	F	S	S
Organo-Main Group Avenues toward Advanced Materials (#16)	D	D	TA			
Fundamentals & Applications of Solvent Extraction in the Recovery of Strategic Metals (#17)	D	D				

02. Inorganic (continued)	I N O R					
Hilton Hawaiian Village	T	W	T	F	S	S
Experimental & Theoretical Actinide Chemistry: From Fundamental Systems to Practical Applications (#42)				DE	D	A
Metal-Organic Frameworks: Synthesis, Properties & Applications (#50)				E	D	A
From Pnictides to Perovskites: Impact of Local Structure in Solid-State Chemistry (#62)				PE	D	A
Lewis Acid-Base Pair Chemistry in Molecular Transformations, Catalysis & Energy Storage (#65)	D	D	TE			
Functional Nanomaterials Based on Coordination Chemistry (#73)			D	A	TE	
Molecular Catalysis of Water-Splitting Reactions (#76)	D	D	TA			
Accessing the Full Potential of Redox-Active Ligands: Reactivity & Applications (#87)					D	A
Recent Discoveries in the Chemistry of Bismuth & Related Elements: The Green Alternative (#93)				D	A	
Coordination & Supramolecular Chemistry for Aqueous Metal Ion Separations (#97)			D	D	TE	
Frontiers of Molecular Magnetism (#109)			D	D	TE	
Frontiers of Organo-f-element Chemistry (#125)	D	D	TA			
Electron Transfer & Electrochemistry of Inorganic & Organometallic Materials (#126)			P	D	TA	
Chemistry & Application of Boron Clusters (#152)				TE	DE	A
Current Trends & Interconnectivities Among Fundamental & Applied Inorganic Fluorine Chemistry (#156)				P	D	A
Noncovalent Interactions in Coordination Systems (#161)	D	D	TA			
Activation & Transformation of Small Molecules Mediated by Early-Transition-Metal Complexes (#170)			DE	D	TE	
Innovative Approaches in Bond-Cleavage & Bond-Forming Reactions at Late-Transition-Metal Centres (#186)	D	D	TA			
Transition-Metal Complexes of N-Heterocyclic & Mesoionic Carbenes: Structure, Materials & Catalytic Applications (#195)			D	A	TE	

PROGRAM SUMMARY

02. Inorganic (continued)	I N O R					
Hilton Hawaiian Village	T	W	T	F	S	S
Advances in Phosphorus Chemistry: Materials, Reactivity at Phosphorus & Synthesis (#226)					D TE	A
The Expanding Periodic Table: New Discoveries & Chemistry of the Heaviest Elements (#234)					D TE	A
Photofunctional Chemistry Based on Metal Complexes and/or Supramolecules (#239)			P TE	D		
Nuclear Probes in Nanoscale Characterization (#254)		DE	TA			
Advances in the Medicinal Applications of N-Heterocyclic Carbene Metal Complexes & Azolium Cations (#255)					D TE	
Inorganic Complexes for Solar Energy Harvesting (#256)			P	D	TA	
Metal-Containing π -Conjugated Systems: Syntheses, Properties, Applications (#269)		D	TA			
Metal-Mediated Polymerization (#292)			D	D	TA	
s-Block Metal Chemistry (#304)					D TE	A
Novel Heme Proteins & Model Systems (#305)			D TE	A		
Metal Coordination Sphere Design for Challenging Bond Transformations (#318)			DE	D	P TA	
Dioxygen Activation Chemistry of Metalloenzymes & Models (#339)			D TE	A		
New Frontiers in Bioinorganic Chemistry (#356)	D	D	TA			
Isotope Production—Providing Important Materials for Research & Applications (#363)			D TE	A		
The Bio-Coordination Chemistry of Nitric Oxide & Its Derivatives: Mechanisms of NO _x Generation, Signaling & Reduction in Biological Systems (#371)				TE	DE	A
Dynamic Aspects of Solid Materials: From Equilibrium to Nonequilibrium Systems (#376)	D	TA				
Activation of Small Molecules by Electropositive Metals Related to Chemical Energy Conversion (#380)					D TE	A
New Directions for Sensing Metals in Biology (#424)					D TE	A

02. Inorganic (continued)	I N O R					
Hilton Hawaiian Village	T	W	T	F	S	S
Telomeres & Other G-quadruplex Structures as Targets for Metallo drugs (#459)			D	TA		
Inorganic General Posters				TA		

03. Macromolecular	M A C R					
Hawaii Convention Center	T	W	T	F	S	S
NMR Spectroscopy of Polymers & Biobased Materials (#12)		E TA	DE	DE	A	
Synthetic Biopolymers (#37)	D	A TE				
New Perspectives of Synthetic & Biological Soft Matter (#57)			D TE	DE		
Dynamic, Reversible & Self-Healing Materials (#64)					P TE	A
Polymer Gels as Advanced Soft Materials (#83)	D	DE	TA			
Radical Polymerization Kinetics & Process Modeling (#92)					D	A
New Frontiers in Polymer Crystallization (#96)				PE TA	D	A
Simulation of Polymers (#110)	D	TA				
Controlled Macromolecular & Supramolecular Architectures for Sustainability (#112)	D	D	TA			
Current Polyurethane Science (#133)					D TE	A
Monomer Sequence Control: Using Nature's Strategy to Create 21st-Century Polymers (#158)			DE	D TE		
Characterization of Polymers & Polymer Assemblies in Solution (#172)	D	A TE				
Polymer Interfaces: Design, Structure, Physical Properties & Applications (#194)		P	D TE	A		
Macromolecular Self-Assembly for Smart Biomaterials (#196)				P TE	D	A
Functional Materials Based on Organic-Inorganic Hybrid Polymers (#221)	D	D	TA			
Cyclic & Topological Polymers (#248)				P TE	D	A
Advanced Membrane Separations (#262)				TE	DE	A

A = Oral AM P = Oral PM E = Oral Eve D = Oral AM/PM
TA = Poster AM TE = Poster Eve

All posters sessions are located at the Hawaii Convention Center.

PROGRAM SUMMARY

03. Macromolecular (continued)	M A C R					
Hawaii Convention Center	T	W	T	F	S	S
Polymers from Renewable Sources & Sustainable Polymer Synthesis (#281)	D	D				
Fusion Materials: Functional Self-Organized Materials Consisting of Fused Organic & Inorganic Components (#294)				P	DE	A
Sustainable Conversion of Lignin to Value-Added Products & Green Chemicals (#319)	D	D				
Polymers for Energy & Optoelectronic Devices (#361)	D	D				
Polymer Materials Performance, Degradation & Optimization (#369)			D	A		
New Perspectives of Bioplastics for Environmental Benign Materials (#396)			D	A		
Advances in Precision Polymer Synthesis Using Reversible-Deactivation Radical Polymerization (#401)			D	A		
Aggregation Induced Emission: Materials & Applications (#444)			DE	D	P	A
Macromolecular General Posters		TA				

04. Organic	O R G N					
Hilton Hawaiian Village	T	W	T	F	S	S
Reactive Intermediates & Unusual Molecules (#7)		DE	A			
Designed π -Electronic Systems: Synthesis, Properties, Theory & Function (#25)			P	D	D	
Prospects for Flow Chemistry (#29)	D	D				
Anion Receptors (#31)				P	D	A
Chemistry of Nanocarbons: Fullerenes, Carbon Nanotubes, Nanographenes & Related Materials (#41)		P	DE	A		
Natural-Product-Based Drug Discovery (#66)			D	D	D	
Molecular & Supramolecular Photochemistry (#71)	D	DE	TA			
Innovative Strategies for the Synthesis of Nitrogen Heterocycles (#74)	D	D				
Molecular Containers (#99)			D	A		
Organoboron Chemistry: Applications in Organic Synthesis, Biology & Materials (#100)		P	D	D		

04. Organic (continued)	O R G N					
Hilton Hawaiian Village	T	W	T	F	S	S
Electrochemical Reactions & Mechanisms in Organic Chemistry (#104)			D			
Recent Trends in Organocatalysis (#122)			DE	DE	TA	
Organic Reactions in Aqueous Media (#131)				D		
Practical Application of Basic Research on Molecular Recognition (#136)		D				
New Green Techniques for Medicinal Chemistry (#148)					D	A
Applications of C-H Functionalization (#169)				DE	D	A
Strategies & Tactics for Complex Molecule Synthesis (#174)				DE	D	A
Homogeneous Gold Catalysis: Methods, Theories & Applications (#192)	D	A	A			
Molecular Function of Natural Products: Advances toward Chemical Biology (#237)	D	DE	TA			
The Science & Strategy of Pharmaceutical Process Chemistry: Adapting to Global Regulatory Development Guidance on Process Impurities (#242)			D			
Molecular Self-Assembly & Functional Organic Nanostructures (#263)			D			
Cooperative Cocatalysis with Two Different Metals (#270)					D	A
Molecular Probes & Fluorophores for Biological Imaging (#280)			D	A		
Frontiers of Chirality in Organic Chemistry (#286)	D	DE	TA			
Supramolecular Chemistry at the Interface of Materials, Biology & Medicine (#300)	D	A				
Chemical Glycosylation: Methods & Mechanisms (#306)				P	D	A
Fluorinations & Fluoroalkylations (#310)		P	D			
Nanomaterials as Catalysts for Green Chemistry (#313)	D	A				
Mechanochemistry & Solvent-Free Synthesis (#322)	D	TA				
Carbenes & Carbenoids in Organic Synthesis (#362)	D	TA				
Organic Solid-State Chemistry: Structure, Property & Reactivity (#398)		P	D	A		

PROGRAM SUMMARY

04. Organic (continued)	O R G N					
Hilton Hawaiian Village	T	W	T	F	S	S
Cognizance of Endangered Elements for Organic Synthesis (#415)	D	A TE				
New Horizon of Process Chemistry by Scalable Reactions & Technologies (#426)				P	D TE	
New Organosulfur Chemistry (#436)			DE	A TE		
Photoredox Catalysis in Organic Synthesis (#440)		D TE				
Asymmetric Supramolecular Catalysis (#451)					D TE	
Catalytic Multicomponent, Tandem & Cascade Reactions (#455)		D TE				
Synthetic Modulators of Protein-Protein Interactions (#461)				P	D TE	A
Organic General Posters		TA				

05. Physical, Theoretical & Computational	P H Y S					
Hawaii Convention Center	T	W	T	F	S	S
Synergistic Relationships between Computational Chemistry & Experiment (#9)			E TA	DE	DE	A
Coarse-Grained Modeling & Its Integration with Experiments (#30)				P	D	
Ultrafast Intense Laser Chemistry (#35)	D	D TE				
Modeling & Analyzing Exciton & Charge Dynamics in Molecules & Clusters (#44)			D TE	D		
Chemistry of Atmospheric Aerosols (#56)			TE	DE	DE	A
Multiscale Couplings of Molecular Theory of Solvation: Fundamentals & Applications (#60)	D	A E	TA			
Advances in Quantum Monte Carlo (#80)				D TE	D	A
New Insights from Quantum Dynamics & Ab Initio Potentials in High-Dimensional Systems (#84)	D	D TE				
Conformational Dynamics of Biomolecules & the Biomolecule-Solvent Interface (#98)					D TE	A
Deciphering Molecular Complexity from Single Molecules to Cellular Networks (#121)	D	D				
Recent Advances in Dynamics of Confined Liquids (#123)				P TE	DE	A

05. Physical, Theoretical & Computational (continued)	P H Y S					
Hawaii Convention Center	T	W	T	F	S	S
Computational Modeling of d- & f-Block Chemistry: Challenges & Opportunities (#130)	D	D TE				
Chemical Imaging: Frontiers of Spatio-Temporal Resolution (#134)	D	D TE				
Recent Progress in Molecular Theory for Excited-State Electronic Structure & Dynamics (#142)	D	DE	E TA			
Self-Organization in Chemistry (#165)			D TE	D		
Frontiers of Metal Clusters & Nanostructures: From Fundamental Properties to Functionalities (#168)	D	D TE				
Challenges in Plasmonic Photochemistry (#176)				P TE	D	A
Theory of Main Group Chemistry Beyond First Row (#183)	D	TA				
Challenges & Opportunities for Exascale Computational Chemistry (#184)				P	D	A
Latest Development of Advanced Vibrational Spectroscopy (#187)	D	D TE				
Recent Progress in Matrix-Isolated Species (#199)			DE	A TE		
Metal Ions & Protein Functions: Theoretical Models & Applications (#202)			DE	D TE		
Quantum Fluid Clusters (#203)					DE	A
Single-Molecule Fluorescence Imaging (#208)		DE	D TE			
Molecular Perspectives on Interfacial Electrochemistry & Electrocatalysis (#218)				PE TA	DE	A
Fundamental Science of Photon- & Electron-Induced Surface Processes (#228)		PE	DE	A		
Interplay between Theory & Experiment in Catalytic Research (#277)		DE	D	TA		
Quantum Coherence in Energy Transfer (#297)				D	D	A
Dynamical Intermolecular Interactions for Biological Functions (#307)				P TE	DE	A
Science with Beams of Radioactive Isotopes (#340)			D	A		

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PROGRAM SUMMARY

05. Physical, Theoretical & Computational (continued)

P H Y S

Hawaii Convention Center	T	W	T	F	S	S
Photocatalysis & Charge Transfer at Interfaces & Nanomaterials (#344)		TE	DE	AE		
Dissociation of Biomolecules in the Gas Phase for Structural Characterization (#352)					D	A
Applications of Coherent Multidimensional Spectroscopy to Chemistry, Biology & Materials (#370)		D	D			
Practical Strategies for Modeling Noncovalent Interactions (#372)			D	A		
Advances in Quantum Dynamics from Spectroscopy to Reactions (#384)					D	A
Interfacial Phenomena for Bubbles, Droplets, Films & Soft Matter (#403)			D	D	A	
Frontier Chemical Applications Using Accelerator-Based Photon Sources (#414)	D	TA				
Reactive Intermediates in Combustion & Atmospheric Chemistry (#419)			E	DE	D	A
Frontiers of Photon Upconversion Based on Triplet-Triplet Annihilation (#420)	D	TA				
Computational Modeling of Magnetic Materials & Magnetic Properties (#423)	D					
Frontiers of Plasmon-Enhanced Spectroscopy (#428)	D	DE	TA			
Recent Experimental & Theoretical Advances in Studies of Liquid Interfaces (#437)				P	D	A
Developments in Spectroscopic Investigation of Intermolecular Interactions & Dynamics of Molecular Clusters (#438)	D	DE	E	TA		
Interplay between Chemistry & Dynamics in Biomolecular Machines (#441)		DE	TA			
Structure & Spectroscopy of Linear Polyenes: Finite & Infinite (#456)			D	A		
Physical, Theoretical & Computational General Posters				TA		

06. Agrochemistry, Environmental & Geochemistry

E N V R

Hilton Waikiki Beach	T	W	T	F	S	S
Ferrites & Ferrates: Chemistry & Applications in Sustainable Energy & Environmental Remediation (#13)		D	D			

06. Agrochemistry, Environmental & Geochemistry (continued)

E N V R

Hilton Waikiki Beach	T	W	T	F	S	S
Chemicals of Emerging Environmental Concern: A Global Perspective (#19)			DE	D		
Pectin Chemistry & Technology (#20)				P	D	A
Human Exposure to Environmental Contaminants (#26)					D	A
Recycling of Polymeric Materials: Challenges & Perspectives (#36)					D	A
Analysis of Flavors in Specialty Asian Foods (#58)			D	TE		
Advanced Products from Lignin & Micro- or Nanofibrillated Cellulose (#70)			P	D	TA	
Application of Mass Spectrometry to Agrochemical Challenges (#72)	D	TA				
Nanointerfaces & Their Role in Environmental Systems & Processes (#86)	D	D	TE			
Sustainable Chemistry: Beyond the Bench (#103)	D	A	TE			
Chemical Ecology Applied to Sustainable Agriculture (#105)				P	D	
Chemistry & Biology of Auxin, Strigolactone & Their Interactions (#107)			D	TE		
UV Photochemistry for Water: Implications for Safe Water Disinfection & Oxidation Treatment Applications (#204)	D	DE	TA			
Enzymes Essential to Biosphere Health: Bioremediation & Biogeochemical Cycling (#219)					P	A
Fate & Risks of Nanoparticles in Aquatic & Terrestrial Environments (#220)				P	A	
Complex Mineral Growth & Dissolution Reactions: Collaborative Experimental & Computational Perspectives (#225)			D	TE		
Proteomics & Metabolomics in Agricultural, Environmental & Public Health Sciences (#264)				D	TE	
Genomics & Metabolomics for Phytochemical Research (#267)	D	TA				
Opportunities & Advancements in Rice Research & Aquaculture Research (#282)			A	TE		
Analytical Development Relevant to Environmental Exposure & Effects (#288)				D	TE	

PROGRAM SUMMARY

06. Agrochemistry, Environmental & Geochemistry (continued)

E N V R

Hilton Waikiki Beach	T	W	T	F	S	S
Advances in Functional Foods & Flavor Chemistry Research (#329)			DE	D		
Environment & Gene Interaction (#336)		D				
Phytochemicals for Crop Protection: Discovery to Molecular Target (#358)	D	TA				
Fukushima & Radiological Contaminated Environments Worldwide: The Important Role of Environmental Chemistry & Radiochemistry in Remediation & Restoration (#374)		D		TE		
Radioactive Contaminants & Waste Management in the Environment (#390)				D	TE	
Sources, Fates & Risks from Consumer Product Ingredients in the Environment (#391)	D	TA				
Food Processing: Chemistry, Quality, Safety, Sustainability & Value-Added By-Products (#400)	D	D	TE			
Status & Trends of Persistent Organic Chemicals in the Environment (#402)			D	TE		
Chemistry of Integrated Water Treatment Systems for Halogenated Organics & Long-Lived Radionuclides (#454)					D	TE
Agrochemistry, Environmental & Geochemistry General Posters		TA				

07. Biological

B I O L

Sheraton Waikiki (*) & Royal Hawaiian (**)	T	W	T	F	S	S
Advances in Peptide & Protein Chemistry (#6) (*)			P	D	DE	A
Functional Nucleic Acids: Chemistry, Biology & Materials Applications (#10) (*)				AE	D	A
New Platforms for Natural Products Discovery (#18) (**)		E	D	D		
Biosynthesis of Natural Products (#27) (*)				PE	DE	A
Homeostasis of Transition-Metal Ions in Biological Systems (#47) (*)					D	A
Characterization & Applications of Food Enzymes (#59) (*)			D	TE		

07. Biological (continued)

B I O L

Sheraton Waikiki (*) & Royal Hawaiian (**)	T	W	T	F	S	S
Heat-Shock Proteins: The Next Target in the Disease Frontier (#91) (*)				D	TE	
Low-Energy Photoexcited States in Photosynthesis (#117) (*)	D	D				
Advances in Biological Solid-State NMR (#120) (**)	D	DE	TA			
Life at Small Copy Numbers (#137) (*)					D	A
Frontiers in Chromatin Biology & Chemical Epigenetics/Epigenomics (#151) (*)		D	DE	A		
Fluorescent & Luminescent Proteins: New Chemistries & New Functions (#180) (*)	D	TA				
Biomolecular Structure & Dynamics: Recent Advances in NMR (#181) (**)			DE	DE	TA	
Strategies for Coupling & Decoupling Diverse Molecular Units in the Glycosciences (#201) (*)		D	A			
Enzyme Engineering & Biocatalysis Applications (#222) (**)		P	D	A		
Bioorganic Reaction Mechanisms (#224) (**)				PE	D	A
Physiology & Metabolism of Extremophiles (#249) (*)		D	TE			
Bio/chemical Approaches for Single-Cell Biosensing Technologies (#257) (*)				D	TE	
Frontiers of Iron Chemistry in Biology (#268) (**)	D	A	TE			
Function, Chemistry & Signaling of Glycolipids & Phospholipids (#273) (**)					D	A
Chemical Approaches to Astrobiology (#326) (*)	D	TA				
Carbohydrate Recognition in Health & Disease (#342) (*)		D	D	TE		
Bioorthogonal Chemistry: Tools & Applications in Chemical Biology (#343) (*)			D	D	TE	
Chemistry & Applications of Retinal Proteins: From Microbes to Humans (#395) (*)				DE	A	TE
Luciferin/Luciferase Engineering (#410) (*)	D	TE				

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PROGRAM SUMMARY

07. Biological (continued)

B I O L

	T	W	T	F	S	S
Sheraton Waikiki (*) & Royal Hawaiian (**)						
Small-Molecule Interactions in Biomembranes (#418) (*)			D TE			
Chemical Biology of Protein-Lipid Modification (#421) (*)	D	TA				
The RNA World: From Prebiotic Chemistry to the Emergence of Complexity (#449) (*)		D TE				
Biological General Posters				TA		

08. Materials & Nanoscience

M T L S

	T	W	T	F	S	S
Hawaii Convention Center						
Organic, Inorganic & Hybrid Nanoparticles: Synthesis, Characterization & Applications (#23)			P TA	DE	DE	A
Nanocrystal Synthesis, Characterization, Assembly & Applications (#34)	D	E	E TA	P		
Chemistry & Applications of Graphene (#39)			P	D TE	D	A
Conjugated Polymers for Biological Applications (#43)	D	A TE				
Nanowires: Synthesis, Fundamental Properties & Novel Device Applications (#51)			D TE	A		
Metal-Oxo Clusters: Molecular Design from Monomers to Infinity (#79)			E TA	PE	DE	A
Two-Dimensional Nanosheets & Nanosheet-Based Materials: Synthesis, Characterization, Functionalization & Applications (#95)		P	D TE	A		
Luminescent Nanomaterials: Properties, Mechanisms & Applications (#101)				P TA	D	A
Molecular Adsorption on Metallic Interfaces: Beyond the Cartoons (#102)	D	A TE				
Design, Synthesis & Applications of Advanced Porous Materials (#111)	D	D TE				
Development of Nano Devices & Nanotechnologies for Environmental Monitoring & Remediation (#124)					D TE	
Frontier & Perspectives in Molecular Spintronics (#127)	D	D TE				
Functional Molecular Materials & Devices (#128)				DE	D TE	A

08. Materials & Nanoscience (continued)

M T L S

	T	W	T	F	S	S
Hawaii Convention Center						
Applications of Ultrasound to Nanoscience (#150)		P	D TE	A		
Mechanically Responsive Materials (#153)		DE	TA			
Specific Effect(s) in Chemical Reactions by Innovative Technologies (#157)	D	D TE				
Electrochemistry on Boron-Doped Diamond (BDD) Electrodes (#162)	D	TA				
Natural to Nanosphere Lithographies: Two Decades of Self-Assembled Advanced Materials (#177)		A TE				
Current & Future Applications of Nanotechnology in the Oil Industry (#197)			D			
Janus Materials: Design, Fabrication & Properties (#210)					D TE	
Frontiers of Organic Porous Materials: Structures, Properties & Applications (#223)	D	D TE	A			
Carbon Nanotubes: Preparation, Characterization & Applications (#227)			TE	DE	DE	A
Advances in Bioinspired & Biomedical Materials (#245)				PE	DE	A
Self-Organization of Membrane Systems (#259)			D TE	A		
Nanomaterials for Nanomedicine (#289)	D	D TE				
Challenge for Rare-Element-Free Functional Materials (#291)					D TE	A
Advanced Materials for Photonics & Electronics: Fundamentals & Applications (#308)		D TE	D	A		
Nitroxide Radicals: Synthesis & Functional Bio-/Nanomaterials (#309)				P TE	D	A
Data Mining & Machine Learning Meets Experiment & First-Principles Simulation for Materials Discovery (#314)	P	D TE				
Membranes & Nanotechnologies for Energy & Environment Applications (#317)			D TE	D		
Ceramic Materials & Processing for Advanced Applications (#341)			D TE	A		
Supramolecular Assemblies at Surfaces: Nanopatterning, Functionality, Reactivity (#346)				D TE	DE	A
The Physical Structure, Function of Biological & Bioinspired Soft Matter (#347)	D	A TE				

PROGRAM SUMMARY

08. Materials & Nanoscience (continued)

M T L S

Hawaii Convention Center	T	W	T	F	S	S
Fundamentals & Applications of Nanomaterials for Energy Technologies (#348)				P TE	D	A
Multiscale & Synergistic Supramolecular Systems in Material & Biomedical Sciences (#357)				P TA	D	A
Materials for the Mitigation of Chemical Hazards (#388)		TA	D	A		
Design of Innovative Photochromic Applications (#399)			D TE	A		
Safety & Sustainability of Nanotechnology (#404)	D	D TE				
Single-Molecule Function & Measurements (#408)	D	DE	TA			
Advances in Organic Light-Emitting Diodes (#409)		D TE	D			
The Frontiers of Geometrically Frustrated Magnetic Materials (#430)		E DE				
Synthesis, Structure & Functionalities of Ferroelectrics & Multiferroics (#432)				PE TA	DE	A
Self-Assembled Biofunctional Nanomaterials (#433)	D	DE	PE TA			
Application of Luminescent Materials for Radiation Detection (#442)			P TE			
Self-Organization: Novel Mesogens & Applications (#447)					D TE	A
Materials & Nanoscience General Posters					TA	

09. Chemistry of Clean Energy Conversion, Storage & Production

E N R G

Hyatt Regency Waikiki	T	W	T	F	S	S
Chemistry of Automotive Emission Control Catalysis: Current R&D & Future Challenges (#21)	D	TA				
Integrated Biomass Refinery by Precisely Designed Heterogeneous Catalysts (#54)					D TE	A
Nano Catalysis for Clean Energy & Environmentally Friendly Chemical Production (#81)	D	DE	E TA	E	E	
Progress Toward a Lignocellulosic Biorefinery (#144)	D	A TE				
Theory & Computation for Efficient Utilization of Energy & Resources (#163)		P	D TE	A		

09. Chemistry of Clean Energy Conversion, Storage & Production (continued)

E N R G

Hyatt Regency Waikiki	T	W	T	F	S	S
Nanostructured Oxides for Energy Harvesting & Water Splitting (#171)				P TE	D	A
Dynamical Processes of Light-Harvesting Surfaces (#178)	D	A	TA			
Water-Phase Catalysis for Energy & Chemicals Production (#182)	D	A TE				
Current Status & Future Prospect of Polymer Electrolyte Fuel Cells (#188)		P TE	DE	A		
Artificial Photosynthesis: Photo-induced Water Splitting (#193)					D TE	A
Energy Storage in Chemical Bonds: Advances in Chemistry & Materials for Hydrogen Storage (#216)			D	D TE		
New Generation of Electrochemical Energy Storage & Conversion System: Materials, Interface & In Situ Techniques (#250)		P	P TA	D		
Nanoporous Materials for Renewable Energy & Sustainability (#266)				P TE	D	A
Artificial Photosynthesis: Reduction of Carbon Dioxide (#271)	D	A TE				
Artificial Photosynthesis: Bioinspired Chemistry for Solar Fuel Production (#278)		P TA	A			
Homogeneous Catalysis Methodologies for the Upgrading of Biomass-Derived Molecules (#301)		P	D			
Advances in Microwave Green Chemistry (#360)				D TE	A	
Challenges in Second-Generation Biofuels: Processing, Stability & Usage (#378)			D TE			
Bridging Homogeneous & Heterogeneous Catalysis in Biorefining of Lignin (#405)					P	A
Global Strategies for Algal Biomass for Bioenergy & Biorefinery (#407)				D TE	D	
Chemistry of Clean Energy Conversion, Storage & Production General Posters		TA				

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PROGRAM SUMMARY

10. Bench to Bedside: Chemistry of Health Care

H L T H

	T	W	T	F	S	S
Sheraton Waikiki (*) & Royal Hawaiian (**)						
Oligonucleotide Therapeutics: From Base Pairs to Bedsides (#8) (*)	D	A	TA			
Chemistry for Development of Theranostic Radiopharmaceuticals (#11) (*)		D	A			
De Novo Drug Design (#28) (*)				D		
Advances in Polymers for Medicine (#52) (*)			D TE	D		
Academic Drug Discovery (#69) (*)				P TA	D	A
Fragment-Based Lead Discovery (#145) (*)	D	DE	TA			
Small-Molecule Epigenetic Modulators (#146) (*)					P TA	A
In Vivo Chemical Strategies for Functional & Translation Studies of Biological Networks & Pathways (#212) (*)					D TE	A
Chemistry of Molecular Imaging (#215) (*)			P TA	D		
New Antibacterial Agents (#236) (*)		P TA	D			
Nutraceuticals & Functional Food Ingredients: Chemistry & Health (#285) (*)			D TE	D		
Molecular Design in Medicine: Concept to Commerce (#295) (*)					D TE	A
Noncanonical Approaches to ¹⁸ F-labeling: New Frontiers in Stable Non-carbon-fluorine Bonds (#337) (*)					D	
Drug Conjugates: Approaches to Delivering Active Drugs to Where They Are Needed (#385) (*)		P TA	A			
Cancer-Targeted Delivery of Therapeutics & Diagnostics (#393) (**)					D TE	A
Spectroscopic Tools for the Treatment of Cancer (#397) (**)	D	DE TA				
Recent Advances in Microfluidics for Radiochemical Synthesis (#416) (*)	D					
Bench to Bedside: Chemistry of Health Care General Posters				TA		

11. Connecting Chemistry to Society

S C T Y

	T	W	T	F	S	S
Hawaii Convention Center						
Connecting Ionic Liquids to Societal Issues: Materials, Medicines, Energy & Water (#113)				PE TA	D	A
Technology & Assessment Strategies for Improving Student Learning in Chemistry (#132)				D TE	D	
Educational Approaches To Help Students Connect Chemistry to World Issues of Sustainability & Climate (#149)					A	A
The Evolving Nature of Scholarly Communication: Connecting Scholars with Each Other & with Society (#173)	D	D TE				
Effective Collaboration Strategies to Drive Innovation in Drug Discovery & Development (#179)		P				
Small Businesses Reaching Out for Market Share: Tool Kit & Success Stories (#185)					D	
Historical Evolution of the Chemical Community in the Countries of the Pacific Rim (#198)					P	A
Bioactive Natural Products & Public Health in the Pacific Rim: From Aquatic Dietary Supplements to Marine & Freshwater Toxins (#230)	D	TA				
Green & Sustainable Chemistry Education for Tomorrow's Citizens of the World (#334)			D TE	A		
Policies & Procedures Regarding Primary Research Data (#335)			A			
Chemistry Education: International & Multicultural Perspectives (#365)	D	A TE				
Women in Chemistry: Changing the Face of Science (#382)		D	D			
Advancing Sustainability: Catalyzing Interdisciplinary Scholarship for Green Chemistry (#383)					D	
Active & Inquiry Learning in the Chemistry Classroom & Laboratory (#443)			DE TA			
University-Industry Collaboration, Regulatory Environments & Commercialization of Emerging Technology (#453)		A				
Safety in the Academic Research Laboratory (#460)	D	TA				
Connecting Chemistry to Society General Posters				TA		

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