

PACIFICHEM 2015

Honolulu, Dec. 15-20

ALOHA! The 2015 International Chemical Congress of Pacific Basin Societies (Pacifichem 2015) will take place in Honolulu on Dec. 15-20. Founded in 1984, this conference is held every five years in Hawaii.

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The theme of the congress is "Chemical Networking: Building Bridges across the Pacific," which emphasizes the collaborative nature of chemistry as a multidisciplinary science and the opportunity to network with other scientists from the Pacific Basin. 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. In addition to the sponsoring societies, 56 chemical societies from Pacific Basin countries are official participating societies. Pacifichem 2015 will be the seventh in the series of successful conferences of Pacific Basin chemical societies.

The congress begins on Tuesday, Dec. 15, and ends on Sunday, Dec. 20, and will feature 334 symposia focusing on 11 specific scientific areas. A listing of the various areas and symposia is located on page 43 under the technical program summary.

REGISTRATION

Early registration opened on June 25 and will close on Oct. 15. Registration fees will be slightly higher after Oct. 15 and will reflect on-site fees. All delegates must register for the conference to attend the sessions and events. 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.

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 PROCEDURES. Del-

egates 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 to Pacifichem 2015 Customer Service, c/o Convention Data Services, 107 Waterhouse Rd., Bourne, MA 02532.

Authorization to charge a credit card must accompany Internet, phone, and faxed registrations. Checks included with mailed registrations are acceptable in U.S. dollars and should be made payable to Pacifichem Inc. If you would like to send an international bank transfer, please contact Brenda Philpot, the Pacifichem registrar, at B_Philpot@ acs.org. Purchase orders are not accepted.

Please allow up to four weeks for processing your mailed request. Residents from the

	FE	E
CLASSIFICATION OF REGISTRANT	EARLY REG- ISTRATION 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.

U.S. and Canada who register prior to Oct. 15 will receive their badge and registration receipt in the mail. All other registrants should pick up their registration credentials on-site at one of the registration areas located at the Hawaii Convention Center, the Sheraton Waikiki ballroom lobby, the Hilton Hawaiian Village Mid-Pacific Conference Center, and the Waikiki Beach Marriott.

Pacifichem 2015 is committed to making the congress accessible to all delegates. Therefore, delegates who require special services should submit their requests by phone at (800) 227-5558 Ext. 6111 (U.S. tollfree) or (202) 872-6111 or by sending an email to pacifichem@acs.org by Nov. 2.

CANCELLATION AND REFUND POLICIES.

Cancellations received by Nov. 2 are entitled to a full refund, less a \$50 administration fee. No refunds will be issued after Nov. 2. All refunds are issued via the same method used for payment. Refunds are processed within 30 days after the conclusion of the meeting. Submit your written cancellation request along with your original credentials by mail to Pacifichem 2015 Customer Service, c/o Convention Data Services, 107 Waterhouse Rd., Bourne, MA 02532; by fax to (508) 743-9681; or by email to pacifichem@xpressreg.net.

HOUSING

Housing is currently open for the congress at www.pacifichem.org. Pacifichem 2015 has negotiated excellent rates with the Ala Moana, DoubleTree by Hilton Alana Waikiki, Hilton Hawaiian Village, Hilton Waikiki Beach, Hyatt Regency, Waikiki Beach Marriott, Pacific Beach Hotel, Ramada Plaza Waikiki, Royal Hawaiian, Sheraton Princess Kaiulani, and Sheraton Waikiki hotels located in Waikiki Beach, Orchid Event Solutions is the official housing bureau for the congress. Pacifichem endorses booking hotel accommodations only 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.

Hotel reservations are taken on a first-come, first-served basis; therefore delegates are encouraged to book their accommodations early to secure the hotel of their choice. 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 via Internet 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 Housing, c/o Orchid Event Solutions, 175 South West Temple, Suite 30, Salt Lake City, UT 84101. Faxed and mailed reservations may require 10 to 14 days for processing.

All reservations must be accompanied by a credit card guarantee or check in the amount of one night's room deposit for each room reserved. Hotels will do their best to accommodate all requests, but there is no guarantee. If the charge to your credit card is denied, we reserve the right to release your reservation. All rooms are subject to 13.962% room and occupancy tax (subject to change). A grid with hotel prices and other information can be found on page 38.

If you require special accommodations because of a disability, please mark the appropriate box on the housing form. All special arrangements should be reconfirmed with your assigned hotel.

Confirmations will be sent by Orchid Event Solutions instead of individual hotels. Please review the confirmation for accuracy, and it is strongly recommended that you bring it with you to the meeting. Contact Orchid Event Solutions if you lose or don't receive a confirmation.

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 & Management
Indonesia: Himpunan Kimia Indonesia

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 & Agrochemistry; Japan Society of Electromagnetic Wave Energy Applications; Japan Society for Environmental Chemistry; Japan Society for Molecular Science; Japan Society for Safety Engineering; Japan Society of Colour Material; Japan Society of Nutrition & Food Science; Japan Society of Soil Science & Plant Nutrition; Japan Technical Association of the Pulp & Paper Industry; Society of Environmental Science, Japan; Society of Sea Water Science, Japan; Ceramic Society of Japan; Electrochemical Society of Japan; Fullerenes, Nanotubes & 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 & Technology; Japanese Society for the History of Chemistry; Japanese Society of Carbohydrate Research; Japanese Society of Printing Science & Technology; Pharmaceutical Society of Japan; Rare Earth Society of Japan; Society for Biotechnology, Japan; Society of Chemical Engineers, Japan; Society of Fiber Science & Technology, Japan; Society of Photography & Imaging of Japan; Society of Polymer Science, Japan; Society of Rubber Science & Technology, Japan; Society of Synthetic Organic Chemistry, Japan; Surface Finishing Society of Japan

Malaysia: Institut Kimia Malaysia, Kuala

Mexico: Sociedad Química de Mexico **Nepal:** Nepal Chemical Society

Papua New Guinea: Institute of Chemists
Philippines: Integrated Chemists of the
Philippines

Singapore: Singapore National Institute of Chemistry

South Korea: Korean Society of Radiopharmaceuticals & Molecular Probes, Korean Society of Water & Wastewater

Sri Lanka: Institute of Chemistry Ceylon
 Taiwan: Chemical Society Located in Taipei
 Thailand: Chemical Society of Thailand
 U.S.: American Peptide Society, Biotechnology Industry Organization, International Ultraviolet Association



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 access 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 non-smoking rooms).

All hotels will have access to a shuttle route.

			Room F	Rates*		**Max	Children	Childcare	Parking	Room	**		ADA	Green
HO.	TELS	Single	Double	Triple	Quad	Guests Per Room	Under Age Free	List Available	Rate (per day)	Service	Allow Pets	Pool	Rooms	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	DoubleTree by Hilton Alana Waikiki	\$195	\$195	\$235	\$275	4	17	No	\$30	Yes	Service	Yes	Yes	Yes
3.a	Hilton Hawaiian Village – Resort View	\$220	\$220	\$270	\$320	4	17	Yes	\$27/\$33	No	Service	Yes	Yes	Yes
3.b	Hilton Hawaiian Village – Ocean View	\$255	\$255	\$305	\$355	4	17	Yes	\$27/\$33	No	Service	Yes	Yes	Yes
3.c	Hilton Hawaiian Village – Deluxe Ocean Rainbow	\$285	\$285	\$335	\$385	4	17	Yes	\$27/\$33	No	Service	Yes	Yes	Yes
3.d	Hilton Hawaiian Village – Ocean View Ali'i	\$310	\$310	\$360	\$410	4	17	Yes	\$27/\$33	No	Service	Yes	Yes	Yes
4.a	Hilton Waikiki Beach – City or Mountain View	\$189	\$189	\$229	\$269	4	17	Yes	\$25	Yes	Service	Yes	Yes	Yes
4.b	Hilton Waikiki Beach – Ocean View	\$239	\$239	\$279	\$319	4	17	Yes	\$25	Yes	Service	Yes	Yes	Yes
5.a	Hyatt Regency Waikiki Beach – City/Mountain View	\$230	\$230	\$305	\$380	4	18	Yes	\$30/\$35	Yes	Yes	Yes	Yes	Yes
5.b	Hyatt Regency Waikiki Beach – Ocean View	\$250	\$250	\$325	\$400	4	18	Yes	\$30/\$35	Yes	Yes	Yes	Yes	Yes
6.a	Marriott Waikiki Beach – City View	\$219	\$219	\$259	\$299	4	17	No	\$32/\$37	Yes	Service	Yes	Yes	Yes
6.b	Marriott Waikiki Beach – Partial Ocean View	\$239	\$239	\$279	\$319	4	17	No	\$32/\$37	Yes	Service	Yes	Yes	Yes
7	Ramada Plaza Waikiki	\$149	\$149	\$179	\$209	4	21	No	\$25	No	No	Yes	Yes	Yes
8	Royal Hawaiian	\$275	\$275	\$375	\$475	4	17	Yes	\$25/\$33	Yes	No	Yes	Yes	No
9.a	Sheraton Princess Kaiulani – City View	\$165	\$165	\$215	\$265	4	17	Yes	\$25	Yes	No	Yes	Yes	No
9.b	Sheraton Princess Kaiulani – Ocean View	\$180	\$180	\$230	\$280	4	17	Yes	\$25	Yes	No	Yes	Yes	No
10.a	Sheraton Waikiki – City View	\$229	\$229	\$304	\$379	4	17	Yes	\$25/\$33	Yes	No	Yes	Yes	No
10.b	Sheraton Waikiki – Mountain View	\$245	\$245	\$320	\$395	4	17	Yes	\$25/\$33	Yes	No	Yes	Yes	No
10.c	Sheraton Waikiki – Partial Ocean View	\$259	\$259	\$334	\$409	4	17	Yes	\$25/\$33	Yes	No	Yes	Yes	No
10.d	Sheraton Waikiki – Ocean View	\$279	\$279	\$354	\$429	4	17	Yes	\$25/\$33	Yes	No	Yes	Yes	No
11	Pacific Beach Hotel	\$175	\$175	\$225	\$275	4	17	No	\$25/\$33	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.



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.

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 Delta or United Airlines.

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, 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 CM0679.

VISAS

Pacifichem 2015 follows the same guidelines for visa application as ACS, 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 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.

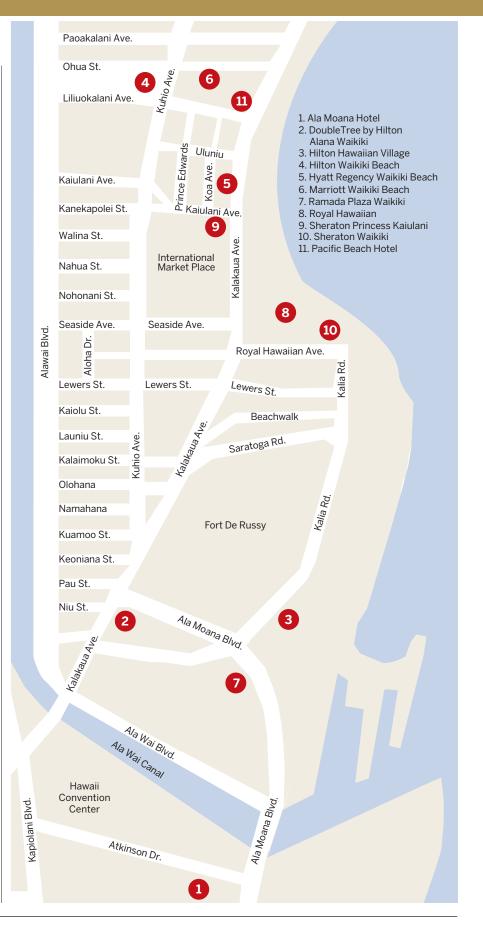
TAXI. The taxi fare from the airport to the hotels in Waikiki is approximately \$40 to \$45 one-way during non-rush-hour periods in addition to a baggage charge of 50 cents per bag. Fare is by meter only.

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 \$24.00 (roundtrip). 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 complimentary. 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 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 service date/time, 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 for the city public transportation service TheBus at (808) 848-4500 or call (808) 848-5555 or visit www.thebus.org for route information.



OFFICIAL HOTEL RESERVATION FORM

December 15-20, 2015 · Honolulu, Hawaii





Name:					
Company:					
Address:					
City:		State:	Zip:	Country:	
Phone:		Fax:	-	- Country.	
Email (required to recei	ive confirmation):	1 0/1.			
	: Please refer to separate Participa d, space-available basis. Submit yo			ference. Requests will be honored of cortunity of receiving your hotel	
1.					
2.					
3.					
4.					
ROOM INFORMATIO		5 .	5.4		
Arrival Date:		Departu	re Date:		
ROOM TYPE	☐ Single (1 bed/1 person)	☐ Doub	ole (1 bed/2 persons)	ouble (2 beds/2 persons)	
	☐ Triple (2 beds/3 persons)	☐ Quad	d (2 beds/4 persons)		
_ist names of all roon	n occupants: 1		2		
	3.		4.		
4					
•	you have a disability requiring s	speciai servic	es		
Special Requests:					
MPORTANT INFOR	MATION				
DEPOSIT: All reservation requests must be accompanied by a credit card guarantee or check in the amount equaling a deposit for one night's room and tax for each room reserved. Tax is currently 13.962% (subject to change). Forms received without a valid guarantee/deposit will not be processed. CANCELLATION: Reservations canceled after November 13, 2015, will be subject to a \$25 cancellation fee for each room canceled charged by Orchid Event Solutions. One night's room & tax will be			night's room & tax for each roo 13, 2015. This credit card must Amex	o charge this card a deposit for one m reservation on or after Novembe be valid through December 2015. Visa Discover ent Solutions Check #	
			15, ed		
	for reservations that are canceled are canceled are for early departures may		Exp. Date:		
	ase refer to your reservation acknowledge		Name:		
for your individual hote			Signature:		

175 South West Temple, Suite 30 Salt Lake City, UT 84101

Fax: (801) 355-0250

(801) 505-4140 International 7:00 AM–6:00 PM MST, Mon.–Fri.

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, 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.

POSTER SESSIONS

All poster sessions will be held at the Hawaii Convention Center in 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.

EXPOSITION

Don't miss out on the opportunity to attend the Pacifichem 2015 Exposition. Plan to attend the exposition and obtain valuable information from exhibitors about their products and services and how they can be of benefit to your company. Exhibitors will impart valuable information on new technologies and instrumentation, laboratory equipment, products to improve research and development, and the efficiency of your company's operation. You will also have the

opportunity to visit with the cosponsoring societies of the congress: ACS, 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.

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 complimentary 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 Pacifichem 2015. Be sure to stop by early as quantities are limited.

SPECIAL EVENTS

The congress's opening ceremony will be held on Tuesday, Dec. 15, at the Sheraton Waikiki hotel followed by the Pacifichem Lecture. The lecture will be given by Sam Kean, *New York Times* best-selling author of "The Disappearing Spoon," "The Tale of the Dueling Neurosurgeons," and "The Violinist's Thumb." The Congress Mixer will take place immediately after the lecture on the Sheraton Waikiki and Royal Hawaiian lawns. The closing reception will take place on Sunday, Dec. 20, at the Hilton Hawaiian Village in the Coral Ballroom.

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 Pacifichem 2015 mobile app. The mobile app will allow attendees to quickly search and find information about the scheduling and location of sessions, author presentations, and special events.

Congress Organizing Committee

Peter J. Stang

Chair University of Utah American Chemical Society

Steven Holdcroft

Vice Chair Simon Fraser University Canadian Society for Chemistry

Eiichi Nakamura

Vice Chair University of Tokyo Chemical Society of Japan

Bryan Balazs

Lawrence Livermore National Laboratory American Chemical Society

Cathleen Crudden

Queen's University Canadian Society for Chemistry

J. Hugh Horton

Queen's University Canadian Society for Chemistry

Nobuyuki Kawashima

Chemical Society of Japan

B. Moon Kim

Seoul National University Korean Chemical Society

Hiroshi Kitagawa

Kyoto University Chemical Society of Japan

Richard Love

American Chemical Society

Anna K. Mapp

Life Sciences Institute American Chemical Society

Mario Mediati

Honolulu Community College American Chemical Society

Elsa Reichmanis

Georgia Institute of Technology American Chemical Society

Atsushi Takahara

Kyushu University Chemical Society of Japan

Nancy Todd

Congress Manager
American Chemical Society

Li-Jun Wan

Chinese Academy of Sciences Chinese Chemical Society

Mark Waterland

Massey University New Zealand Institute of Chemistry

Christopher J. Welch

Merck & Co. American Chemical Society

David A. Winkler

CSIRO Royal Australian Chemical Institute

Kaoru Yamanouchi

University of Tokyo Chemical Society of Japan

PRELIMINARY PROGRAM



2015 International Chemical Congress of Pacific Basin Societies December 15 - 20, 2015 • Honolulu, Hawaii, USA

<u>Sponsors</u>

American Chemical Society, Canadian Society for Chemistry, Chemical Society of Japan,

New Zealand Institute of Chemistry, Royal Australian Chemical Institute, Korean Chemical Society, Chinese Chemical Society

THEW Zealand Institute of Orien	iisti y, Noyai Australian C	onemical institute, Note	an Chemical Society, Chine	se Chemical Society							
□ Dr. □ Prof. □ Mr. □ Ms. □ Mrs.											
First Name	Last Name	e	Title								
Company/University											
Street Address 1											
Street Address 2											
City	STATE										
Country			ZIP								
Telephone		FAX									
Email											
If you require special se	rvices or assistance p	olease call 1-800-227	-5558 x6111 or email pa	acifichem@acs.org							
Hotel Accommodations											
Which hotel are you staying at or planning to stay	v during the Pacifichem 20.	15 Congress?									
How many Pacifichem meetings have you atter	ndod2	I work primarily in:	I wish to receive exhibitor	spansored metarial by							
☐ This is my first Pacifichem meeting ☐ This is my Pacifichem meeting ☐ How did you hear about the 2015 International		☐ Academia ☐ Industry ☐ Government ☐ Other		email/mail Do not contact me							
Pacifichem 2015 Early (Discounted) □ (\$725) Member of sponsoring or participating such that the second sponsor of the second spons	Society (please see website t Member tt Non-Member ne technical sessions, but m exture, exposition and closin	ay use the shuttle buses,	□ (\$825) Member of sponso (please see website) □ (\$950) Non-Member (\$250) □ Undergraduate of (\$250) □ Undergraduate of (\$80) Guest (Guests are sessions, but may use the sessions, but may use the sessions.	adard/Onsite Registration Fees oring or participating Society or □ Graduate Student Member or □ Graduate Student Non-Member e not entitled to attend the technical shuttle buses, and may attend the opening the exposition and closing reception)							
Guest Last Name:			Guest First Name:								
DEADLINE FOR PACIFICHEM EARLY REG	GISTRATION IS OCTO	BER 15, 2015.									
Registration Cancellation/Refund Policy: Cancellation used for payment. Refunds are processed within 30 c Customer Care Service Center by mail, fax or e-mail by	ons received by November 2, days after the conclusion of the y November 2, 2015. No refun	2015 are entitled to a full refune meeting. Submit your writed after November 2, 2015.	nd, less a \$50 administrative fee. ten cancellation along with your of	All refunds are issued via the same method original credentials to the Pacifichem 2015							
If you are a member of one of the seven Co-Spotext boxes below. The society you select allows	onsoring Societies or one of you to receive the member	of the Official Participation or registration rate. Pleas	ng Organizations, then please se see www.pacifichem.org (G	specify the name of the society in the eneral information) for more details.							
One registration form per attendee, guest registrations must have credit card number included Pacifichem 2015, c/o Convention Data Services, 1 office at 1-800-251-8629 or 1-508-743-0192. IF YO	or check attached to the 107 Waterhouse Road, Bou	registration form, purcha rne, MA 02532 Or by fax	se orders are not accepted. P 508-743-9681 or contact the Pa	Please mail or fax registration form to: acifichem 2015 Customer Care Service							
Paid by: ☐ American Express ☐ Discover ☐ M	aster Card 🗅 Visa 🗅 Ch	eck	ter voucher code here):								
		EXP									
Cardholder Name (please print):		Signa	ture:								

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. MTLS 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	1	Ν	Υ	/	L
Marriott Waikiki Beach	Т	W	Т	F	S	S
New Tools & Methodologies for the	D	D	Р	ΤА		
Characterization of Biomolecular						
Interactions (#15)						
Development & Applications of			D	D	ΤA	
Techniques for Electrochemical						
Analysis (#24)						
Current Issues in Teaching Analytical		D	ΤA			
Chemistry (#38)						
Frontiers in Flow Injection Analysis &	D	D	ΤА			
Related Techniques (#45)						
Supercritical Fluid Chromatography			D			
(SFC) for Analysis & Purification (#53)			ΤE			
Advances in Analytical Ion Mobility	D	D	ТА			
Separations (#61)						
On-site & In Vivo Instrumentation &			D			
Applications (#88)			TE			
Direct & Mediated Bioelectrocatalysis				D	Α	
for Biosensors & Energy Conversion				_	ΤE	
Applications (#89)						
Comprehensive Multidimensional					Р	A
Separations (#90)					ΤE	
Immunoanalysis: Applications &	D	D	ТА			
Trends for Environmental Monitoring &						
Human Health (#94)						
Novel Analytical Probes for In Vivo				Р	D	A
Optical Functional Imaging (#115)					ΤE	
Micro- & Nanofabricated Analytical	D	DE	ΑE	ΤА		
Devices for Chemical, Biochemical &						
Biomedical Platforms (#129)						
Marine & Freshwater Toxins: Detection,					D	A
Structure & Pharmacology (#138)					ΤE	
Innovation in Chemical Sensing &	D	ТА				
Separation Systems toward Advanced						
Chemical Analysis (#159)						
Fundamentals & Applications of Atomic	\vdash	D	D			
Spectrometry (#160)		TE				
Optical Waveguide Techniques for				D	Α	
the Analyses of Materials & Interfaces				TE		
(#164)						
Paper-Based Analytical Devices for				_	P	A
Point-of-Need Measurements (#213)					TE	11
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 $A = Oral\,AM \quad P = Oral\,PM \quad E = Oral\,Eve \quad D = Oral\,AM/PM$ $TA = Poster\,AM \quad TE = Poster\,Eve$

Marriott Waikiki BeachTWTFSSSymposium on Petroleomics: Molecular-Level Understanding of Petroleum for Environmental Science & Petroleum Engineering (#247)DTALaser Ionization Mass Spectrometry (#274)DTEUltrasensitive Assays for Proteins & Protein Modifications (#287)DEEAdvanced Analytical Applications & Technical Developments of Soft X-Ray Spectroscopy (#303)PDAdvances in FTIR Microspectroscopy: 3-D Tomography to Nanoscale Imaging (#315)DAMagnetoanalytical Science: Separation, Characterization & Imaging (#320)TETEHarmonized Strategy of New UHPLC Implementation in Pharmaceutical R&D & CRO/CMO QC Laboratories (#353)TEAVibrational Spectroscopy: New Developments & Applications in Biological & Medical Sciences (#375)DTEAnalytical Laser-Induced Breakdown Spectroscopy (LIBS) for Hazards Analysis, Forensics & Health (#379)PABacterial Identification by Mass Spectrometry (#389)TEAdvances in Analytical Techniques for Effective Food Allergen Management (#394)DTEAdvances in Terahertz Spectroscopy & Imaging (#413)DTE(Bio-)Chemical / Electrochemical Sensors & Sensing Materials (#417)PDPlasmonic Materials for Chemical Analysis (#450)DTAOrganized Surfactant Assemblies inDD	01. Analytical (continued)	F	Α		Υ	/	L
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Organized Surfactant Assemblies in D A	Plasmonic Materials for Chemical		P	D			
	Analysis (#450)		TΑ				
	Organized Surfactant Assemblies in					D	Α
Chemical Analysis & Separation Science: TE						ΤE	
Fifty Years Later (#457)			L				
Analytical General Posters TA			ΤA				

02. Inorganic		1	1	0		R
Hilton Hawaiian Village	Т	W	Т	F	S	S
Organo-Main Group Avenues toward Advanced Materials (#16)	D	D	ТА			
Fundamentals & Applications of Solvent Extraction in the Recovery of Strategic Metals (#17)	D	D TE				

02. Inorganic (continued)		1	1	O		₹
Hilton Hawaiian Village	Т	W	Т	F	S	S
Experimental & Theoretical Actinide				DE	D	A
Chemistry: From Fundamental Systems					ΤЕ	
to Practical Applications (#42)						
Metal-Organic Frameworks: Synthesis,				Е	D	A
Properties & Applications (#50)					ΤE	
From Pnictides to Perovskites: Impact				PE	D	A
of Local Structure in Solid-State					ΤЕ	
Chemistry (#62)						
Lewis Acid-Base Pair Chemistry in	D	D				
MolecularTransformations, Catalysis&		TE				
Energy Storage (#65)						
Functional Nanomaterials Based on			D	A		
Coordination Chemistry (#73)			TE			
Molecular Catalysis of Water-Splitting	D	D	TΑ			
Reactions (#76)						
Accessing the Full Potential of Redox-					D	A
$Active \ Ligands: Reactivity \& \ Applications$					ΤE	
(#87)						
Recent Discoveries in the Chemistry of				D	Α	
Bismuth & Related Elements: The Green					ΤЕ	
Alternative (#93)						
Coordination & Supramolecular			D	D		
Chemistry for Aqueous Metal Ion			ΤE			
Separations (#97)						
Frontiers of Molecular Magnetism			D	D		
(#109)			ΤE			
Frontiers of Organo-f-element	D	D	TΑ			
Chemistry (#125)						
Electron Transfer & Electrochemistry of			Р	D		
Inorganic & Organometallic Materials			TΑ			
(#126)						
Chemistry & Application of Boron				ΤE	DE	A
Clusters (#152)						
Current Trends & Interconnectivities				P	D	Α
Among Fundamental & Applied				ΤE		
Inorganic Fluorine Chemistry (#156)						
Noncovalent Interactions in	D	D	TA			
Coordination Systems (#161)						
Activation & Transformation of			DE			
Small Molecules Mediated by Early-				ΤE		
Transition-Metal Complexes (#170)						
Innovative Approaches in Bond-	D	D	TA			
Cleavage & Bond-Forming Reactions at						
Late-Transition-Metal Centres (#186)						
Transition-Metal Complexes of			D	A		
N-Heterocyclic & Mesoionic Carbenes:			ΤE			
Structure, Materials & Catalytic						
Applications (#195)						

PROGRAM SUMMARY

02. Inorganic (continued)	١	1	1	0		R
Hilton Hawaiian Village	Т	W	Т	F	S	S
Advances in Phosphorus Chemistry:					D	A
Materials, Reactivity at Phosphorus &					ΤE	
Synthesis (#226)						
The Expanding Periodic Table: New					D	A
Discoveries & Chemistry of the Heaviest					ΤE	
Elements (#234)						
Photofunctional Chemistry			P	D		
Based on Metal Complexes and/or			ΤE			
Supramolecules (#239)						
Nuclear Probes in Nanoscale		DE	TΑ			
Characterization (#254)						
Advances in the Medicinal Applications					D	
of N-Heterocyclic Carbene Metal					TE	
Complexes & Azolium Cations (#255)						
Inorganic Complexes for Solar Energy			P	D	TA	
Harvesting (#256)						
Metal-Containing π -Conjugated		D	TA			
Systems: Syntheses, Properties,						
Applications (#269)						
Metal-Mediated Polymerization (#292)			D	D	TA	
s-Block Metal Chemistry (#304)					D	A
		_			ΤE	
Novel Heme Proteins & Model Systems			D	A		
(#305)			TE			
Metal Coordination Sphere Design for			DE	D	Р	
Challenging Bond Transformations					TA	
(#318)			_			
Dioxygen Activation Chemistry of		D	A			
Metalloenzymes & Models (#339)		TE				
New Frontiers in Bioinorganic	D	D	ТА			
Chemistry (#356)		_	_			
Isotope Production—Providing		D	A			
Important Materials for Research &		TE				
Applications (#363)		-		mp	DE	Δ.
The Bio-Coordination Chemistry of Nitric Oxide & Its Derivatives:				TE	DE	A
Mechanisms of NO _x Generation,						
Signaling & Reduction in Biological						
Systems (#371)						
Dynamic Aspects of Solid Materials:	D	ТА				<u> </u>
From Equilibrium to Nonequilibrium	D	IA				
Systems (#376)						
Activation of Small Molecules by					D	A
Electropositive Metals Related to					TE	-1
Chemical Energy Conversion (#380)						
New Directions for Sensing Metals in		\vdash	Н		D	A
Biology (#424)					TE	
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02. Inorganic (continued)	١	1	1	0		R
Hilton Hawaiian Village	Т	W	Т	F	S	S
Telomeres & Other G-quadruplex Structures as Targets for Metallodrugs (#459)			D	ТА		
Inorganic General Posters				ΤA		

03. Macromolecular	١	Λ	Α	C		R
Hawaii Convention Center	Т	۱۸/	Т	_	S	S
	'					3
NMR Spectroscopy of Polymers &				DE	A	
Biobased Materials (#12)	_	TA	_		_	
Synthetic Biopolymers (#37)	D	A TE				
New Perspectives of Synthetic &			D	DE		
Biological Soft Matter (#57)			ΤE			
Dynamic, Reversible & Self-Healing					Р	Α
Materials (#64)					ΤE	
Polymer Gels as Advanced Soft	D	DE	ΤА			
Materials (#83)						
Radical Polymerization Kinetics &					D	Α
Process Modeling (#92)					ΤE	
New Frontiers in Polymer				PE	-	Α
Crystallization (#96)				ΤA		
Simulation of Polymers (#110)	D	ТА				
Controlled Macromolecular &	D	_	TA			
Supramolecular Architectures for			***			
Sustainability (#112)						
Current Polyurethane Science (#133)					D TE	A
Monomer Sequence Control: Using			DE	D		
Nature's Strategy to Create 21st-Century			בוע	TE		
Polymers (#158)				1 2		
Characterization of Polymers & Polymer	D	Α				
Assemblies in Solution (#172)	_	TE				
Polymer Interfaces: Design, Structure,		Р	D	Α		
Physical Properties & Applications			ΤE			
(#194)						
Macromolecular Self-Assembly for				Р	D	Α
Smart Biomaterials (#196)				ΤE		
Functional Materials Based on Organic-	D	D	ТА			
Inorganic Hybrid Polymers (#221)						
Cyclic & Topological Polymers (#248)				Р	D	Α
J 1 0 J (* 1-)				ΤE		
Advanced Membrane Separations				ΤE	DE	A
(#262)						

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

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04. Organic	()	R	G	1	1
Hilton Hawaiian Village	Т	W	Т	F	S	S
Reactive Intermediates & Unusual		DE				
Molecules (#7)			ΤE			
Designed π -Electronic Systems:			P	D	D	
Synthesis, Properties, Theory &				ΤE		
Function (#25)						
Prospects for Flow Chemistry (#29)	D	D				
		ΤE				
Anion Receptors (#31)				Р	D	A
				ΤE		
Chemistry of Nanocarbons: Fullerenes,		P	DE	Α		
Carbon Nanotubes, Nanographenes &		ΤE				
Related Materials (#41)						
Natural-Product-Based Drug Discovery			D	D	D	
(#66)				ΤE		
Molecular & Supramolecular	D	DE	ΤА			
Photochemistry (#71)						
Innovative Strategies for the Synthesis	D	D				
of Nitrogen Heterocycles (#74)		ΤE				
Molecular Containers (#99)			D	Α		
(/				ΤE		
Organoboron Chemistry: Applications		Р	D	D		
in Organic Synthesis, Biology &		ΤE				
Materials (#100)						

04. Organic (continued)	()	R	G	1	1
Hilton Hawaiian Village	Т	W	Т	F	S	S
Electrochemical Reactions &			D			_
Mechanisms in Organic Chemistry			TE			
(#104)						
Recent Trends in Organocatalysis (#122)			DE	DE	ΤА	
Organic Reactions in Aqueous Media				D		
(#131)				ΤE		
Practical Application of Basic Research		D				
on Molecular Recognition (#136)		ΤE				
New Green Techniques for Medicinal					D	Α
Chemistry (#148)					ΤЕ	
Applications of C-H Functionalization				DE	D	A
(#169)					ΤЕ	
Strategies & Tactics for Complex				DE	D	A
Molecule Synthesis (#174)					ΤЕ	
Homogeneous Gold Catalysis: Methods,	D	Α	Α			
Theories & Applications (#192)		ΤE				
Molecular Function of Natural	D	DE	ΤА			
Products: Advances toward Chemical						
Biology (#237)						
The Science & Strategy of			D			
Pharmaceutical Process Chemistry:			ΤE			
Adapting to Global Regulatory						
Development Guidance on Process						
Impurities (#242)						
Molecular Self-Assembly & Functional			D			
Organic Nanostructures (#263)			TE			
Cooperative Cocatalysis with Two					D	A
Different Metals (#270)					ΤE	
Molecular Probes & Fluorophores for			D	A		
Biological Imaging (#280)			ΤE			
Frontiers of Chirality in Organic	D	DE	TA			
Chemistry (#286)						
Supramolecular Chemistry at the	D	A				
Interface of Materials, Biology &		TE				
Medicine (#300)				_		_
Chemical Glycosylation: Methods &				P	D	A
Mechanisms (#306)			_		ТЕ	
Fluorinations & Fluoroalkylations		P	D			
(#310)	Б	ΤE				
Nanomaterials as Catalysts for Green	D	A				
Chemistry (#313)	Б.	TE	_			
Mechanochemistry & Solvent-Free	D	TA				
Synthesis (#322)	ъ	CD 4				
Carbenes & Carbenoids in Organic	D	ТА				
Synthesis (#362)		P		_	\vdash	
Organic Solid-State Chemistry:		Р	D	A		
Structure, Property & Reactivity (#398)		ТЕ				

04. Organic (continued)	()	R	G	i	1
Hilton Hawaiian Village	Т	W	Т	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)				Р	D TE	A
Organic General Posters		ТА				

05. Physical, Theoretical & Computational	F)	Н	Υ	′ (S
Hawaii Convention Center	Т	W	Т	F	S	S
Synergistic Relationships between			Е	DE	DE	A
Computational Chemistry &			ΤА			
Experiment (#9)						
Coarse-Grained Modeling & Its				Р	D	
Integration with Experiments (#30)				ΤE		
Ultrafast Intense Laser Chemistry (#35)	D	D				
75 1 11 0 4 1 1 7 1 0 61		ΤE	_	_		
Modeling & Analyzing Exciton & Charge			D	D		
Dynamics in Molecules & Clusters (#44)			ΤE			
Chemistry of Atmospheric Aerosols (#56)			ТЕ	DE	DE	A
Multiscale Couplings of Molecular	D	ΑE	ТА			
Theory of Solvation: Fundamentals &	_					
Applications (#60)						
Advances in Quantum Monte Carlo				D	D	A
(#80)				ΤE		
New Insights from Quantum Dynamics	D	D				
& Ab Initio Potentials in High-		ΤE				
Dimensional Systems (#84)						
Conformational Dynamics of					D	Α
Biomolecules & the Biomolecule-Solvent					ΤE	
Interface (#98)						
Deciphering Molecular Complexity from	D	D				
Single Molecules to Cellular Networks		ΤE				
(#121)						
Recent Advances in Dynamics of				Р	DE	A
Confined Liquids (#123)			L	ΤE		

05. Physical, Theoretical & Computational (continued)	Р		Η	Υ	′ (S
Hawaii Convention Center	Т	W	Т	F	S	S
Computational Modeling of d- & f-Block	D	D				
Chemistry: Challenges & Opportunities		ΤE				
(#130)						
Chemical Imaging: Frontiers of Spatio-	D	D				
Temporal Resolution (#134)		TE				
Recent Progress in Molecular Theory	D	DE				
for Excited-State Electronic Structure &			TA			
Dynamics (#142)			_	_		
Self-Organization in Chemistry (#165)			D TE	D		
Frontiers of Metal Clusters &	D	D				
Nanostructures: From Fundamental		ΤE				
Properties to Functionalities (#168)						
Challenges in Plasmonic				Р	D	A
Photochemistry (#176)				ΤE		
Theory of Main Group Chemistry	D	TA				
Beyond First Row (#183)			_	_	_	_
Challenges & Opportunities for				P	D	A
Exascale Computational Chemistry				TE		
(#184) Latest Development of Advanced	D	D				_
Vibrational Spectroscopy (#187)	ע	TE				
Recent Progress in Matrix-Isolated		111	DE	A		_
Species (#199)				TE		
Metal Ions & Protein Functions:			DE	D		
Theoretical Models & Applications				ΤE		
(#202)						
Quantum Fluid Clusters (#203)				ΤE	DE	A
Single-Molecule Fluorescence Imaging		DE	D			
(#208)			ΤE			
Molecular Perspectives on Interfacial					DE	A
Electrochemistry & Electrocatalysis				TA		
(#218)				_		
Fundamental Science of Photon-&		ı	DE	A		
Electron-Induced Surface Processes		ТА				
(#228) Interplay between Theory & Experiment		DE	_	T 4		
in Catalytic Research (#277)		DE	D	IA.		
Quantum Coherence in Energy Transfer		_	_	D	D	A
(#297)					TE	11
Dynamical Intermolecular Interactions				_	DE	A
for Biological Functions (#307)				ΤE		
Science with Beams of Radioactive			D	Α		
Isotopes (#340)			ΤE			

 $\label{eq:abs} A = \operatorname{Oral} AM \quad P = \operatorname{Oral} PM \quad E = \operatorname{Oral} Eve \quad D = \operatorname{Oral} AM/PM \\ TA = \operatorname{Poster} AM \quad TE = \operatorname{Poster} Eve$

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

06. Agrochemistry, Environmental & Geochemistry	E	Ξ.	Ν	\ 	/	R
Hilton Waikiki Beach	Т	W	Т	F	S	S
Ferrites & Ferrates: Chemistry &		D	D			
Applications in Sustainable Energy &		TE				
Environmental Remediation (#13)						

06. Agrochemistry,	Ē	-	Ν	V	/	R
Environmental & Geochemistry (continued)						
Hilton Waikiki Beach	Т	W	Т	F	S	S
Chemicals of Emerging Environmental			DE	D		
Concern: A Global Perspective (#19)				ΤE		
Pectin Chemistry & Technology (#20)				Р	D	A
					ΤE	
Human Exposure to Environmental					D	Α
Contaminants (#26)					ΤE	
Recycling of Polymeric Materials:					D	A
Challenges & Perspectives (#36)					ΤE	
Analysis of Flavors in Specialty Asian			D			
Foods (#58)			ΤE			
Advanced Products from Lignin & Micro-			Р	D	ΤА	
or Nanofibrillated Cellulose (#70)						
Application of Mass Spectrometry to	D	TΑ				
Agrochemical Challenges (#72)						
Nanointerfaces & Their Role in	D	D				
Environmental Systems & Processes		ΤE				
(#86)						
Sustainable Chemistry: Beyond the	D	A				
Bench (#103)		TE				
Chemical Ecology Applied to				Р	D	
Sustainable Agriculture (#105)				ΤE		
Chemistry & Biology of Auxin,		D				
Strigolactone & Their Interactions		TE				
(#107)						
UV Photochemistry for Water:	D	DE	TA			
Implications for Safe Water Disinfection						
& Oxidation Treatment Applications						
(#204)			_	_		
Enzymes Essential to Biosphere Health:					Р	A
Bioremediation & Biogeochemical					TA	
Cycling (#219)			_	D	Δ.	
Fate & Risks of Nanoparticles in Aquatic & Terrestrial Environments (#220)				P TE	A	
Complex Mineral Growth & Dissolution			D	115		_
Reactions: Collaborative Experimental			TE			
& Computational Perspectives (#225)			111			
Proteomics & Metabolomics in				D		_
Agricultural, Environmental & Public				TE		
Health Sciences (#264)				-		
Genomics & Metabolomics for	D	ТА				
Phytochemical Research (#267)	_					
Opportunities & Advancements in			A			
Rice Research & Aquaculture Research			ΤE			
(#282)						
Analytical Development Relevant to				D		
Environmental Exposure & Effects				ΤE		
(#288)						

06. Agrochemistry,	E		Ν	٧	' [R
Environmental & Geochemistry (continued)						
Hilton Waikiki Beach	Т	W	Т	F	S	S
Advances in Functional Foods & Flavor Chemistry Research (#329)			DE	D TE		
Environment & Gene Interaction (#336)		D TE	ı			
Phytochemicals for Crop Protection: Discovery to Molecular Target (#358)	D	ТА				
Fukushima & Radiological Contaminated Environments Worldwide: The Important Role of Environmental Chemistry & Radiochemistry in Remediation & Restoration (#374)		D		ТЕ		
Radioactive Contaminants & Waste Management in the Environment (#390)				D TE		
Sources, Fates & Risks from Consumer Product Ingredients in the Environment (#391)	D	ТА				
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		ТА				

07. Biological	E	3	1	С)	L
Sheraton Waikiki (*) & Royal Hawaiian (**)	Т	W	Т	F	S	S
Advances in Peptide & Protein Chemistry (#6) (*)			Р	D TE	DE	A
Functional Nucleic Acids: Chemistry, Biology & Materials Applications (#10) (*)				AE	D TE	A
New Platforms for Natural Products Discovery (#18) (**)		Е	D TE	D		
Biosynthesis of Natural Products (#27) (*)				PE TA	DE	A
Homeostasis of Transition-Metal Ions in Biological Systems (#47) (*)					D TE	A
Characterization & Applications of Food Enzymes (#59) (*)			D TE			

07. Biological (continued)	E	В		В		В		В		В		С)	L
Sheraton Waikiki (*) & Royal Hawaiian (**)	Т	W	Т	F	S	S								
Heat-Shock Proteins: The Next Target in				D TE										
the Disease Frontier (#91) (*) Low-Energy Photoexcited States in	D	D		1E										
Photosynthesis (#117) (*) Advances in Biological Solid-State NMR	D	TE DE												
(#120) (**)	ע	DE	IA											
Life at Small Copy Numbers (#137) (*)					D TE	A								
Frontiers in Chromatin Biology & Chemical Epigenetics/Epigenomics (#151) (*)		D TE	DE	A										
Fluorescent & Luminescent Proteins: New Chemistries & New Functions (#180) (*)	D	ТА												
Biomolecular Structure & Dynamics: Recent Advances in NMR (#181) (**)			DE	DE	TA									
Strategies for Coupling & Decoupling Diverse Molecular Units in the Glycosciences (#201) (*)		D TE	A											
Enzyme Engineering & Biocatalysis Applications (#222) (**)		Р	D TE	A										
Bioorganic Reaction Mechanisms (#224)				PE TA	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 TE	A								
Chemical Approaches to Astrobiology (#326) (*)	D	ТА												
Carbohydrate Recognition in Health &		D	D TE											
Disease (#342) (*) Bioorthogonal Chemistry: Tools &			D	D										
Applications in Chemical Biology (#343) (*)			TE											
Chemistry & Applications of Retinal Proteins: From Microbes to Humans (#395) (*)				DE	A TE									
Luciferin/Luciferase Engineering (#410) (*)		D TE												

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

07. Biological (continued)	E	3		0)	L
Sheraton Waikiki (*) & Royal Hawaiian (**)	Т	W	Т	F	S	S
Small-Molecule Interactions in Biomembranes (#418) (*)			D TE			
Chemical Biology of Protein-Lipid Modification (#421) (*)	D	ТА				
The RNA World: From Prebiotic Chemistry to the Emergence of Complexity (#449) (*)		D TE				
Biological General Posters				ΤА		

08. Materials & Nanoscience	١	М		TL		S
Hawaii Convention Center	Т	W	Т	F	S	S
Organic, Inorganic & Hybrid			Р	DE	DE	
Nanoparticles: Synthesis,			ΤА			
Characterization & Applications (#23)						
Nanocrystal Synthesis,	D	Е	Е	Р		
Characterization, Assembly &			ΤА			
Applications (#34)						
Chemistry & Applications of Graphene			Р	D	D	Α
(#39)				ΤE		
Conjugated Polymers for Biological	D	Α				
Applications (#43)		ΤE				
Nanowires: Synthesis, Fundamental			D	Α		
Properties & Novel Device Applications			ΤE			
(#51)						
Metal-Oxo Clusters: Molecular Design			Е	PΕ	DE	Α
from Monomers to Infinity (#79)				ΤА		
Two-Dimensional Nanosheets &		Р	D	Α		
Nanosheet-Based Materials: Synthesis,			ΤE			
Characterization, Functionalization &						
Applications (#95)						
Luminescent Nanomaterials:				P	D	A
Properties, Mechanisms & Applications				TΑ		
(#101)						
Molecular Adsorption on Metallic	D	A				
Interfaces: Beyond the Cartoons (#102)		ΤE				
Design, Synthesis & Applications of	D	D				
Advanced Porous Materials (#111)		ΤE				
Development of Nano Devices &					D	
Nanotechnologies for Environmental					ΤE	
Monitoring & Remediation (#124)						
Frontier & Perspectives in Molecular	D	D				
Spintronics (#127)		ΤE				
Functional Molecular Materials &				DE		A
Devices (#128)					ΤE	
Applications of Ultrasound to		P	D	Α		
Nanoscience (#150)			ΤE			

08. Materials & Nanoscience (continued)	1	Л	Τ	L	_	S
Hawaii Convention Center	Т	W	Т	F	S	S
Mechanically Responsive Materials	Ė	DE		i -		<u> </u>
(#153)			111			
Specific Effect(s) in Chemical Reactions	D	D				
by Innovative Technologies (#157)		TE				
Electrochemistry on Boron-Doped	D	ТА				
Diamond (BDD) Electrodes (#162)						
Natural to Nanosphere Lithographies:		Α				
Two Decades of Self-Assembled		ΤE				
Advanced Materials (#177)						
Current & Future Applications of			D			
Nanotechnology in the Oil Industry			TE			
(#197)						
Janus Materials: Design, Fabrication &				D		
Properties (#210)				ΤE		
Frontiers of Organic Porous Materials:	D	D	A			
Structures, Properties & Applications		TE				
(#223)						
Carbon Nanotubes: Preparation,			TE	DE	DE	A
Characterization & Applications (#227)	_	_	_		D E	_
Advances in Bioinspired & Biomedical					DE	A
Materials (#245)			_	TΑ		
Self-Organization of Membrane			D	A		
Systems (#259) Nanomaterials for Nanomedicine	_		ТЕ	_		
	D	D TE				
(#289) Challenge for Rare-Element-Free		1 E			D	
Functional Materials (#291)					TE	A
Advanced Materials for Photonics	_	D	D	Α	115	
& Electronics: Fundamentals &		TE		Α.		
Applications (#308)		1				
Nitroxide Radicals: Synthesis &	_			P	D	
Functional Bio-/Nanomaterials (#309)				ΤE		11
Data Mining & Machine Learning	P	D				_
Meets Experiment & First-Principles	1	TE				
Simulation for Materials Discovery						
(#314)						
Membranes & Nanotechnologies for			D	D		
Energy & Environment Applications			ΤЕ			
(#317)						
Ceramic Materials & Processing for			D	A		
Advanced Applications (#341)		L	ΤE			
Supramolecular Assemblies at Surfaces:					DE	Ā
Nanopatterning, Functionality,				ΤE		
Reactivity (#346)						
The Physical Structure, Function of	D	A				
Biological & Bioinspired Soft Matter		TE				
(#347)						

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

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09. Chemistry of Clean	E		Ν	R	(G
Energy Conversion, Storage & Production (continued)						
Hyatt Regency Waikiki	Т	W	Т	F	S	S
Nanostructured Oxides for Energy				Р	D	Α
Harvesting & Water Splitting (#171)				ΤE		
Dynamical Processes of Light-	D	A	TA			
Harvesting Surfaces (#178)						
Water-Phase Catalysis for Energy &	D	A				
Chemicals Production (#182)		ΤE				
Current Status & Future Prospect of		P	DE	A		
Polymer Electrolyte Fuel Cells (#188)		ΤE				
Artificial Photosynthesis: Photo-					D	A
induced Water Splitting (#193)					ΤE	
Energy Storage in Chemical Bonds:			D	D		
Advances in Chemistry & Materials for				ΤE		
Hydrogen Storage (#216)						
New Generation of Electrochemical		P	P	D		
Energy Storage & Conversion			TA			
System: Materials, Interface & In Situ						
Techniques (#250)						_
Nanoporous Materials for Renewable				P	D	A
Energy & Sustainability (#266)				ΤE		_
Artificial Photosynthesis: Reduction of	D	A				
Carbon Dioxide (#271)		ΤE	_			
Artificial Photosynthesis: Bioinspired		P	A			
Chemistry for Solar Fuel Production		TA				
(#278)		_	_			_
Homogeneous Catalysis Methodologies		Р	D			
for the Upgrading of Biomass-Derived		TA				
Molecules (#301)				_	_	_
Advances in Microwave Green				D	A	
Chemistry (#360)			_	ΤE		_
Challenges in Second-Generation			D			
Biofuels: Processing, Stability & Usage			TE			
(#378)				_	D	 A
Bridging Homogeneous & Heterogeneous Catalysis in Biorefining					P TA	A
of Lignin (#405)					1A	
Global Strategies for Algal Biomass for		\vdash	 	D	D	<u> </u>
Bioenergy & Biorefinery (#407)				שן	ע TE	
Chemistry of Clean Energy Conversion,		ТА			115	_
Storage & Production General Posters		1 A				
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 $\label{eq:abs} A = \operatorname{Oral} AM \quad P = \operatorname{Oral} PM \quad E = \operatorname{Oral} Eve \quad D = \operatorname{Oral} AM/PM \\ TA = \operatorname{Poster} AM \quad TE = \operatorname{Poster} Eve$

10. Bench to Bedside: Chemistry of Health	ł	1	L	T		+
Care Sheraton Waikiki (*) & Royal Hawaiian (**)	Т	W	Т	F	S	S
Oligonucleotide Therapeutics: From Base Pairs to Bedsides (#8) (*)	D	A	ТА			
Chemistry for Development of Theranostic Radiopharmaceuticals (#11) (*)		D TE	A			
De Novo Drug Design (#28) (*)				D TE		
Advances in Polymers for Medicine (#52) (*)			D TE	D		
Academic Drug Discovery (#69) (*)				P TA	D	A
Fragment-Based Lead Discovery (#145) (*)	D	DE	ТА			
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	D TE		
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 TE	
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	ТА				
Bench to Bedside: Chemistry of Health Care General Posters				ТА		

11. Connecting Chemistry to Society		5	С	T	- ,	Y
Hawaii Convention Center	Т	W	Т	F	S	S
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 TE	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 TE				
Small Businesses Reaching Out for Market Share: Tool Kit & Success Stories (#185)				D TE		
Historical Evolution of the Chemical Community in the Countries of the Pacific Rim (#198)					P TA	A
Bioactive Natural Products & Public Health in the Pacific Rim: From Aquatic Dietary Supplements to Marine & Freshwater Toxins (#230)	D	ТА				
Green & Sustainable Chemistry Education for Tomorrow's Citizens of the World (#334)			D TE	A		
Policies & Procedures Regarding Primary Research Data (#335)			A TE			
Chemistry Education: International & Multicultural Perspectives (#365)	D	A TE	_			
Women in Chemistry: Changing the Face of Science (#382)		D	D	TA	_	
Advancing Sustainability: Catalyzing Interdisciplinary Scholarship for Green Chemistry (#383)					D TE	
Active & Inquiry Learning in the Chemistry Classroom & Laboratory (#443)			DE	ТА		
University-Industry Collaboration, Regulatory Environments & Commercialization of Emerging Technology (#453)		A TE				
Safety in the Academic Research Laboratory (#460)	D	ТА				
Connecting Chemistry to Society General Posters				ТА		