
The American Chemical Society

Founded in 1876 and chartered by Congress, the American Chemical Society is the world's largest scientific society. It is a self-governed individual membership professional organization consisting of 154,000 members, representing a wide range of disciplines of chemists, chemical engineers, and technicians.

The organization seeks to promote the public's perception and understanding of chemistry and the chemical sciences through public outreach programs and provides career development assistance and employment opportunities for science professionals.

The Orange County ACS Section has over 1400 members, and holds 8 general meetings and dozens of committee meetings each year. Along with supporting the Science and Engineering Fair, the Education Committee of Orange County ACS has testing and awards programs for high school and college chemistry students, and demonstrations and activities for elementary children in the fall and spring.

Event Hosts

AirUCI, located at the University of California, Irvine, is a multidisciplinary environmental research group that is dedicated to understanding and solving critical issues relating to air pollution, water quality, climate change, and green technology - from local to global scales.

To achieve these ambitious goals, our world-renowned team has come together to form an integrated group of researchers from the school of Physical Sciences, the school of Medicine, and the school of Engineering whose focus is to elucidate the fundamental science and impacts of pollution, energy, and climate change and their effects on human health, society, and the planet.

Orange County Section 2013-2014 Officers

| | | | |
|-------------|----------------------|-----------|---------------|
| Chair | Dr. Michael Kleinman | Treasurer | Robert Cohen |
| Chair-Elect | Dr. Sandra Thompson | Councilor | Dr. Rabin Lai |
| Past Chair | David Marec | | Robert Cohen |
| Secretary | Dr. Sangeeta Dey | | Sanda Sun |

2013-2014 Chemical Education Committee

| | | |
|-------------------------|-------------------|--------------------|
| Dr. Carol Grimes, Chair | Judy Bechtold | Brady Bilhartz |
| Dr. Allison Gotoh | Dr. Mark Hamamura | Stacey Hamamura |
| Crystal Jenkins | Heather Jonson | Dr. John Kenney |
| David Licata | Alison Loeper | Dr. Ted Lorange II |
| Kim Ngo | Shannon Regli | Dr. Terri Speakman |
| Sanda Sun | Brent Shenton | Phuong Vo |
| Helen Wagner | | |

The Orange County ACS section and Mrs. Bruce Davis sponsored the student winners for the dinner and all cash awards. Funding for the teachers' dinners and for the school plaques by the Orange County ACS section. Medallions for the Olympiad team and winners from the top ten schools sponsored by Margaret Carlberg.

American Chemical Society

Orange County Section



ACS
Chemistry for Life®

High School Awards Program

University of California, Irvine

May 19, 2014

Welcome

Michael Kleinman, Ph.D.

Orange County ACS President

Dr. Carol Grimes

Orange County ACS Education Committee Chair

Master of Ceremonies

Sicilian Italian Buffet

with dessert and beverages

Speaker

Miranda Paley

UCI Doctoral Candidate

Lighting up Biology:

Bioluminescence Imaging to Monitor

Cellular Interactions in Live Animals

Awards

Orange County ACS Education Committee

Orange County Science Fair

First Year Chemistry

Bruce Davis Award

Chemistry Olympiad

Margaret Carlberg Award

Chemistry Olympiad Team Awards

Closing

| Student | Teacher | School |
|----------------|----------------|-------------|
| Junyu Yang | Shannon Regli | Troy |
| Shikhar Gupta | Jeff Morgan | Tustin |
| Andrew Hong | Shannon Bunch | University |
| Lisa Jian | Brent Shenton | Valencia |
| Bryan Carbaugh | Gwen Corbett | Villa Park |
| Alexis Negrete | Corina Durrego | Western |
| Jenny Nguyen | Matthew Cain | Westminster |
| Ji Soo Kim | Tiffany Ward | Yorba Linda |

The top student from each school has their name engraved on their school's perpetual plaque.

The Chemistry Olympiad Team Competition

The Team Competition Award is given to the top three school teams from the Chemistry Olympiad Local Exam Competition. Team scores were calculated based on the total number of questions answered correctly for all competitors from each school. This year's winners are:

First Place **Troy High School**
Junyu Yang, Namita Nabar, Elizabeth Li, Kalline Tong

Second Place **Valencia High School**
Lisa Jian, Nikhil Shah, Chad Atalla, Collin Amano

Third Place **Beckman High School**
Daemyeong Hwang, Jeffrey Chen, Melinda Nguyen, Courtney Vu

Margaret Carlberg Award

Andrew Hong..... University High School

The Education Committee of OCACS is proud to honor the service of Margaret Carlberg to students and to ACS by creating this special award. It is given each year to the top Chemistry Olympiad student, based on the scores for the first Olympiad exam each year. Margaret has helped shape the lives of many students as a chemistry teacher for both first year and AP chemistry at Cornelia Connelly High School, and served as chair of the Education Committee for 14 years. In 2005 she received the Charles Bennett award from our local section for service to "the wonderful world of chemistry" (Margaret's favorite phrase).

Top Chemistry Olympiad Student for each Participating School

| Student | Teacher | School |
|-------------------|----------------------|----------------------|
| Daemyeong Hwang | Michael Tran | Beckman |
| Matthew Cha | Wade Cormier | Brea Olinda |
| Derik Nguyen | Nicole Torneo | Canyon |
| Natalie Minnetian | Helen Wagner | Cornelia Connelly |
| Alex Wendland | Kim Ngo | Corona Del Mar |
| Jieun Kang | Patty Brunet | Cypress |
| Jack Zhang | Kristine Clarke | Dana Hills |
| Leah Norimatsu | Heather Tangen | Early College |
| Christopher Yin | Susan Ballard | Edison |
| Melissa Sugimoto | Ken Tse | El Toro |
| Aaron Su | Dr. Bob Varnold | Fairmont Prep. |
| Daniel Schmid | Gypsy Biller | Foothill |
| Anh Dao | Marie-Claire Siddall | Godinez |
| Aurora Johnson | Denise Yokoe | Huntington Beach |
| Nhut Pham | John Greek | La Quinta |
| Alex Duong | Steve Sogo | Laguna Beach |
| Mark Kim | Tim Jones | Los Alamitos |
| Cathy Nguyen | Lauren Rodgers | Marina |
| Parth Shah | Daryl Fukuda | Mission Viejo |
| Eric Li | Judie Persons | Northwood |
| Michael Lundholm | Robert Gonzalez | Ocean View |
| Joon Jo | Robert Nguyen | Oxford Academy |
| Joy Cho | Adrian Fernandez | Pacifica |
| Brenda Bermudez | Christopher Wren | Saddleback |
| Breanna Bowers | Valerie Broadhead | Saddleback Christian |
| Ruoxi Chen | Bill Dupuis | Sage Hill |
| Emanuel Arambula | Dr. R. Shaefer | Santa Ana |
| Annie Duong | Lan Vu | Seegerstrom |
| Ross Yu | Robyn Swancoat | Servite |
| Collin Price | Dr. Bob McDaniel | St. Margaret's |
| Alan Liu | Andrew Colomac | Sunny Hills |
| Amanda Brown | Amy Varricchio | Tesoro |

Science Fair Winners

Junior Division — Michael Wu, Rancho San Joaquin Middle School, Irvine, "A Physical and Chemical Analysis of the Nutritional and Caloric Content of GM vs. non-GM Papayas"; Teacher Nancy Driscoll

Senior Division — Hope Lee, Woodbridge High, Irvine, "Recovery Optimization of the Enzyme Bromelain"; Teacher Mike Antrim

Orange County 2014 Highest Honors Top Scoring First-Year Students in Top 10 Schools

| Student | Teacher | School |
|-----------------------------|------------------|------------------|
| Klarisse Andre de St. Amant | Shannon Regli | Troy |
| Marlon Trifunovic | Denise Yokoe | Huntington Beach |
| Kevin Tsao | Siu-Ling Sit | Beckman |
| Mihir Nilkanth | Daryl Fukuda | Mission Viejo |
| Orianna Xu | Beverly Matsuda | Northwood |
| Jennifer Conde | Terri Stevens | Corona del Mar |
| Andrew Nguyen | Brent Shenton | Valencia |
| Keegan Pham | Heather Jonson | OCHSA |
| Kristina Shia | Valerie Thompson | University |
| Brandon Kim | Nicole Torneo | Canyon |

Order based on April 26, 2014 performance with 280 students participating

National Chemistry Olympiad Exam Participants

| Student | Teacher | School |
|-------------------|---------------|----------------|
| Andrew Hong | Shannon Bunch | University |
| Junyu Yang | Shannon Regli | Troy |
| Jennifer McCleary | Michael Tran | Beckman |
| Namita Nabar | Shannon Regli | Troy |
| Christopher Yin | Susan Ballard | Edison |
| Eric Li | Judie Persons | Northwood |
| Ruoxi Chen | Bill Dupuis | Sage Hill |
| Lisa Jian | Brent Shenton | Valencia |
| Daemyeong Hwang | Michael Tran | Beckman |
| Christian Totoiu | Nicole Torneo | Canyon |
| Parth Shah | Daryl Fukuda | Mission Viejo |
| Alex Wendland | Kim Ngo | Corona del Mar |

Order based on March 15, 2014 Local Olympiad test score with 149 students participating. Maximum two students per school as outlined in national rules.

Top First Year Chemistry Student for each Participating School

| Student | Teacher | School |
|---------------------|-------------|----------------------|
| Kevin Tsao | S Sit | Beckman |
| Jonathan Paek | Cormier | Brea Olinda |
| Madison Haugland | J Holland | Brethren Christian |
| Brandon Kim | N Torneo | Canyon |
| Jing Selena Liu | H Wagner | Cornelia Connelly |
| Jennifer Conde | T Stevens | Corona del Mar |
| Courtney Newberry | S Moore | Cypress |
| Tiffany Thein | K Clarke | Dana Hills |
| Michelle Hwang | M Cabrera | Edison |
| Pooja Saran | B House | El Toro |
| Marlon Trifunovic | D Yokoe | Huntington Beach |
| Stefan Vo | S Brown | Katella |
| Omar Vazquez | C Whitsett | Kennedy |
| Aaron Sivard | L Matsuyama | La Habra |
| Nicolas Vidas | S Sogo | Laguna Beach |
| Alex Haduong | L Rodgers | Marina |
| Mihir Nilkanth | D Fukuda | Mission Viejo |
| Orianna Xu | B Matsuda | Northwood |
| Zachary Goodale | K Fuschetti | Ocean View |
| Keegan Pham | H Jonson | OCHSA |
| Jennie Zheng | D Cullinane | Oxford Academy |
| Vincent Leung | M Crawford | Pacifica |
| Thang Nguyen | A Morrison | Rancho Alamitos |
| Luis Terrones | J Morgan | Saddleback |
| Yu-Chun Winnie Chen | V Broadhead | Saddleback Christian |
| Dillon Kanne | D Thomassen | Sage Hill |
| Maia Gibson | M Riem | San Clemente |
| Daria Lasc | B Oldroyd | San Juan Hills |
| Ariel Frias | R Jara | Santa Ana |
| Braden Lem | L Garcia | Savanna |
| Alejandro Velazquez | S Nimmo | Seegerstrom |
| Brandon Martinez | R Swancoat | Servite |
| Megan Phansalkar | B McDaniel | St. Margaret's |
| Mee Kyoungh Seo | A Colomac | Sunny Hills |

| Student | Teacher | School |
|-----------------------------|-------------|---------------|
| Hugh Garmany | A Varrichio | Tesoro |
| Sunrae Taloma | J Camiling | Trabuco Hills |
| Klarisse Andre de St. Amant | S Regli | Troy |
| Fiona DeMoss | J Morgan | Tustin |
| Kristina Shia | V Thompson | University |
| Andrew M. Nguyen | B Shenton | Valencia |
| Kevin Chou | C Durrego | Western |
| Calvin Ho | M Cain | Westminster |

The top student from each school has their name engraved on their school's perpetual plaque.

Bruce Davis Award

Klarisse Andre de St. Amant..... Troy High School

The Orange County Section has created a special award in honor and memory of Dr. Bruce Weldon Davis, to recognize excellence in chemistry. It is given to the student with the highest score on the First Year Orange County ACS test. Dr. Davis' positive outlook on life, his compassion for all people, his professionalism, his excellence in science and his recognition of education as the essential ingredient in success have shaped the activities of our section for many years.

Special Thanks to...

Dr. Barbara Finlayson-Pitts, AirUCI and *Melissa Sweet* Project Events Co-ordinator, UC Irvine, for hosting the awards dinner,
Dr. Richard Deming, CSU Fullerton, for hosting the First Year test,
Dr. Ted Lorance, Vanguard University, for hosting committee meetings and Olympiad tests, preparing certificates for all our awards, handling online registration, and judging the Orange County Science Fair,
Sanda Sun, Irvine Valley College, for coordination of the First Year test,
Brent Shenton, for coordination of the Chemistry Olympiad exams,
Helen Wagner and Stacey Hamamura for coordinating the high school dinner planning, arrangements, reservations, and decorations,
Dr. Rabin Lai for arranging online registration and reservations for the banquet,
Heather Jonson for coordinating the awards,
Dr. Terri Speakman, Golden West College, for producing the program,
 And the entire *Orange County ACS Education Committee*, for your commitment to encourage chemistry students throughout the county.