

# Pacific Branch Entomological Society of America

**Eighty-Fourth Annual Meeting** 



Timothy D. Paine

President

DoubleTree Hotel Costa Mesa, California

June 25-27, 2000

## JOHN HENRY COMSTOCK GRADUATE STUDENT AWARD

This year's winner of the Comstock Award for the Pacific Branch of the ESA is Dr. Alec Gerry. Dr. Gerry is currently a senior public health biologist at the Vector-borne Disease Section of the California Dept. of Public Health in Visalia, CA.

Dr. Gerry received his Ph.D. from the University of California, Riverside in 1999 with a major in medical/veterinary entomology and minors in insect biochemistry and biomedical sciences.



#### **WOODWORTH AWARD**

The C. W. Woodworth Award annually recognizes a person in the Pacific Branch of the ESA who has made outstanding contributions to entomology during the past decade. The 2000 Award goes to Dr. Jay Brunner of Washington State University.



Dr. Brunner majored in biology at Willamette University (1969), then went on to obtain a Master of Science degree in entomology at Washington State University (1973). He continued his graduate studies at WSU, obtaining a doctorate in entomology in 1975. His first post-graduate position was with Michigan State University where he served as the director of Michigan's pilot Tree Fruit IPM

Project. After four years, he joined the faculty at Washington State University, located at the Tree Fruit Research and Extension Center in Wenatchee. His work is most noted for implementation of phenology models, especially those for codling moth and other tortricid pests. More recently, his work has focused on the development and implementation of mating disruption of codling moth. In 1997, he was appointed Director of the TFREC.

Dr. Brunner's career has been distinguished by numerous types of awards, service, and recognition. He served as the President of the Pacific Branch in 1998-99, and as secretary of Section F in 1997. He received the Pacific Branch ESA Award for Excellence in IPM in 1997.

# PACIFIC BRANCH ENTOMOLOGICAL SOCIETY OF AMERICA COMMITTEE MEMBERSHIP AND OTHER APPOINTMENTS 1999-2000

**Abstracts**Phyllis Crabtree

**Archives**Bruce F. Eldridge

Arrangements
William Carson
Gregory Kund

**Auditing** Tom Unruh

Awards Canvassing
Dessie L. A. Underwood

**Graduate Student**Carlos E. Coviella

**Linnaean Games**Darcy Reed, Chairman & Games Master

#### Nominations

Robert A. van Steenwyk, Chairman Kris Godfrey Michael Brewer

#### Program

Eileen Paine Phyllis Crabtree Timothy D. Paine

#### Registration

Darcy Reed Andrea Joyce Heather Yaffee

**Resolutions**Larry Godfrey

#### Site Selection

Michael Wagner Timothy Dennehey

#### **Student Paper Competition**

Gregory P. Walker Raymond K. Yokomi Margaret Wirth Vincent P. Jones

#### Sustaining Associates

Jay Brunner Kurt Volker

## Pacific Branch

## ENTOMOLOGICAL SOCIETY OF AMERICA

#### President

Timothy D. Paine Department of Entomology University of California Riverside, CA 92521

#### President-Elect

Keith S. Pike Washington State University 24106 N. Bunn Rd. Prosser, WA 99350

#### Secretary-Treasurer

Kurt C. Volker Zeneca Ag. Products 7610 Scenic Dr. Yakima, WA 98908

## Representative on the Governing Board

Richard A. Redak Department of Entomology University of California Riverside, CA 92521

#### Executive Committee Members at Large

John Stark (2000) Edward J. Bechinski (2000) Larry D. Godfrey (2001) Vincent P. Jones (2001) Eric Natwick (2002) Raymond K. Yokomi (2002)

#### **Headquarters and Meetings**

DoubleTree Hotel 3050 Bristol St. Costa Mesa, CA 92626 (714) 540-0719

#### **Future Meetings**

2001 - Park City, Utah 2002 - South Lake Tahoe, NV

#### **MEETING NOTES**

#### **REGISTRATION:**

Sunday, June 25 6:00 p.m.-9:00 p.m. Monday, June 26 8:00 a.m.-4:00 p.m. Tuesday, June 27 8:00 a.m.-12:00 noon

Everyone attending the Pacific Branch meeting or participating in the Special Events Program must register. The registration desk will be located in the foyer located outside the Doubletree Ballroom, III and IV. On-site registration is \$110 for members, \$50 for students, and \$120 for non-members. Registration is complimentary for honorary members, emeritus members, associates (spouses and gests), and invited participants from outside the Pacific Branch or outside the profession.

**AWARDS LUNCHEON:** Our awards luncheon will be held starting at noon Tuesday, June 27, in the Fountain Terrace. Tickets are \$25 each at the registration desk.

**BRANCH MIXER:** The mixer is scheduled for Monday evening, June 26, from 5:30-7:00 p.m. in the Fountain Terrace. Drinks and heavy appetizers will be served. Tickets for guests are \$10 each at the registration desk.

**AUDIO VISUAL**: An overhead projector package, a 35MM slide projector package, and an LCD data display package are available for your use. Speakers may practice their presentation as follows:

Sun, June 25, Costa Mesa Boardroom, 6:00-9:00 p.m. Mon., June 26, Costa Mesa Boardroom, 9:00 a.m.-6:00 p.m. Tues., June 27, Costa Mesa Boardroom, 9:00 a.m.-6:00 p.m.

**POSTER DISPLAY PRESENTATIONS:** Poster displays will be presented in Emerald I on Tuesday, June 26, from 9:00 a.m. to 5:00 p.m. Emerald I will be open for authors to set up their displays in advance on Monday, June 26, from 6:00 to 9:00 p.m. and on Tuesday, June 27, from 8:00 to 9:00 a.m. Displays should be taken down by 6:00 p.m. Tuesday, June 27. Poster boards are 4' x 4' and push-pin friendly. Authors, please bring your own push-pins and post your displays to indicate when you will be present to discuss your presentation.

#### **NOMINATIONS**



FOR PRESIDENT-ELECT: The nominations Committee, Robert A. van Steenwyk (chair), Kris Godfrey, and Michael Brewer recommend Dr. Frank Zalom for President-elect of the Pacific Branch. Dr. Zalom is Director of the University of California Statewide Integrated Pest Management (UCIPM) Project, part of UC's Division of Agriculture and Natural Resources. His entomology activities focus primarily

on horticultural fruit crops. Dr. Zalom received his BS and MS degrees from Arizona State University, and his Ph.D. from UC Davis.

His honors and awards include the Entomological Society of America's Distinguished Achievement Award in Extension (1992), the University of California Assembly Council/California Farm Bureau Federation's "Outstanding Academic Administration" (1999) awards, and the "Excellence in Entomology Award" from the American

Registry of Professional Entomologists (1989). He was elected a Fellow of the California Academy of Sciences in 1990, received a Fulbright Senior Research Fellowship to Spain in 1992-93, and was named a Visiting Fellow of the Victoria (Australia) Department of Agriculture. This year he received an Achievement Award from the Friends of Agricultural Extension.

Dr. Zalom was Secretary/Treasurer of the Pacific Branch from 1984 through 1989, and has served the branch on its Executive, Local Arrangements, Program, Awards, Student Paper, Student Poster, and Resolutions Committees.

**INFORMATION:** Notices, meeting schedule changes and general information will be posted throughout the meeting on a bulletin board. Personal messages may also be posted. Information on points of interest, dining, and entertainment will also be available from the hotel.

**EXECUTIVE COMMITTEE:** The Executive Committee of the Pacific Branch will meet Sunday evening, June 25, from 6:00-9:00 p.m. in the Anacapa Boardroom and Tuesday, June 27, from 5:00-6:00 p.m. in the Costa Mesa Boardroom.

**MEETING SCHEDULE:** Session moderators are responsible for keeping speakers on schedule. If a presentation is completed early, or cancelled, the moderator must insure that the next presentation begins at the scheduled time. Sessions must not get ahead or fall behind schedule.

**LINNAEAN GAMES:** The Games will be held on Monday, June 26, from 7:30-10:00 p.m. in the Pacific Ballroom III and IV. Contact Dr. Darcy Reed, UC Riverside, for more information.

**AWARDS:** The C. W. Woodworth Award and the Comstock Award will be presented during the opening session on Monday, June 26. All other awards will be presented during the awards luncheon on Tuesday, June 27.

**HOUSING AND TRANSPORTATION:** Headquarters for the meeting will be at the DoubleTree Hotel, 3050 Bristol St., Costa Mesa, California, (714) 540-7000. The hotel is located 5 minutes from John Wayne Airport. Free ground transportation to the airport is provided by the hotel.

**WEATHER:** The weather in Costa Mesa during June is excellent! Daytime temperatures average around 80°F with nighttime lows in the 60s.

# Program Pacific Branch, Entomological Society of America June 25-27, 2000

## Sunday, June 25

Executive Committee Meeting Costa Mesa Board Room

6:00 p.m. - 9:00 p.m.

Registration Ballroom Foyer

6:00 p.m. - 9:00 p.m.



## Monday, June 26

Opening Session
Doubletree Ballroom, Rooms III and IV

8:00 a.m. - 10:00 a.m.

#### Welcome

Tim Paine, President, Pacific Branch, Entomological Society of America

## **Opening Remarks**

Sharron Quisenberry, President, Entomological Society of America Jim Olmes, Executive Director, Entomological Society of America

#### 2000 Pacific Branch Comstock Award Winner

Dr. Alec Gerry (45 minutes)

#### Woodruff Award

#### Student Symposium

Doubletree Ballroom, Rooms III and IV

10:00 a.m. - Noon

| <u>Time</u> | <u>Paper:</u>   | <u>Presenter:</u>                         |
|-------------|---|---|
| 10:00 a.m.  | "Particle Selection and Use of Agal   | L. Hannah Gould, William E. Walton,       |
|             | Monocultures by Larval Mosquitoes"  | UC Riverside                              |
| 10:20 a.m.  | "Sex Pheromones of the Stink Bugs   | Hsiao-Yung Ho, Jocelyn G. Millar,         |
|             | Chlorochroa ligata, C. sayi, and C. uhleri"   | UC Riverside                              |
| 10:40 a.m.  | "Effects of Nonhost Plants on <i>Artogeia</i> rapae and Other Lepidopterous Herbivores in Diverse Cruciferous Habitats" | Cerruti R. R. Hooks, University of Hawaii |
| 11:00 a.m.  | "Proximate and Ultimate Mechanisms in<br>the Honey Bee Mating System"   | David R. Tarpy, UC Davis                  |

| 11:20 a.m.  | "The Influence of Moisture on Chemical<br>Availability Following Indoor Application"           | Ryan L. Williams, Robert I. Krieger, UC Riverside           |
|-------------|--|---|
| 11:40 a.m.  | "Dynamics of Intraspecific Competition in<br>the Whitefly Parasitoid <i>Encarsia formosa</i> " | <b>Albert K. Owen</b> , Molly Hunter, University of Arizona |
| Lunch Break |  | 12 Noon - 1:00 p.m.   |

Student Competition Emerald I

1:00 - 3:00 p.m.

Judges: Peggy Wirth, UC Riverside, Eric Natwick, UC Davis

## <u>M.S.</u>

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## *Ph.D.*

| <u>Time:</u> | Paper:   | Presenter:   |
|--------------|--|--|
| 1:41 p.m.    | "Effects of Phosphorus on Growth in Larval<br>Manduca sexta"   | Marc C. Perkins, H. Arthur Woods, Jon F. Harrison, Arizona State University  |
| 1:53 p.m.    | "Determining Colony Boundaries in Eusocial Insects: Why We Should Care"  | Kirsten A. Copren, UC Davis  |
| 2:05 p.m.    | "Plant Allocation to Defensive Compounds<br>Under Elevated Atmospheric CO <sub>2</sub> "   | Carlos E. Coviella, UC Riverside, Richard<br>D. Stipanovic, USDA ARS, John T. Trumble, UC<br>Riverside                               |
| 2:17 p.m.    | "Codling Moth (Lepidoptera: Tortricidae) Host<br>Selection and Cultivar-Specific Mortality"  | <b>Santiago Martí</b> , Helmut Riedl, Orgeon State<br>University   |
| 2:29 p.m.    | "Reclamation of Selenium-Contaminated Sites:<br>Response of <i>Spodoptera exigua</i> to Selenium-<br>Treated <i>Atriplex</i> Plants" | <b>Danel B. Vickerman</b> , UC Riverside, Michael C. Shannon, Gary S. Banuelos, USDA ARS, John T. Trumble, UC Riverside              |
| 2:41 p.m.    | "Evaluation of "Green" and "Red" Strains of<br>Heterorhabditis bacteriophora (Rhabditida:<br>Heterorhabditidae) from Italy"          | <b>Tae-Hwan Kim</b> , Oregon State University,<br>Eustachio Tarasco, DIBICA, Bari, Italy,<br>Ralph E. Berry, Oregon State University |

## Insect Molecular Biology

Emerald I 1:00 - 3:00 p.m.

Moderator:

Peter Atkinson, UC Riverside

| <u>Time:</u> | <u>Paper:</u>  | Presenter:   |
|--------------|--|--|
| 3:00 p.m.    | "Molecular Physiology of Ecdysis-Triggering Hormones"  | Michael E. Adams, Yoonseong Park,<br>John L. Hermesman, Valery Fillipov,<br>UC Riverside, Dusan Zitnan, Slovak Academy<br>of Sciences, Sarjeet S. Gill, UC Riverside   |
| 3:20 p.m.    | "Engineering Malaria Resistance in Mosquitoes"   | Margareth de L. Capurro, J. Coleman, UC Irvine,<br>K. E. Olson, Colorado State University,<br>B. T. Beernsten, UC Irvine, E. Rocha,<br>Univ. Federal de Alagoas, A. U. Krettli,<br>FIOCRUZ, A. A. James, UC Irvine |
| 3:40 p.m.    | "New Genes in Tick Feeding: New Compounds for Tick Control"  | <b>Deborah C. Jaworski</b> , Algis Jasinskas,<br>Alan G. Barbour, UC Irvine  |
| 4:00 p.m.    | "Genetic Transformation of Wild Type Yellow<br>Fever Mosquito, <i>Aedes aegypti</i> , Using the<br><i>Hermes</i> Gene Vector and the Green Fluorescent<br>Protein as a Genetic Marker" | Alexandra C. Pinkerton, UC Riverside   |
| 4:20 p.m.    | "Identification of the Sex-Determination Gene,<br>Transformer-2 of Medfly, Ceratitis capitata"   | Mark A. Robertson, UC Riverside  |

## Glassy Winged Sharpshooters and Pierce's Disease: A Threat to California Agriculture Emerald II 1:00 p.m. - 5:00 p.m.

Moderator:

Richard A. Redak, UC Riverside

| Time:     | Papers:  | Presenter:  |
|-----------|--|---|
| 1:00 p.m. | "The Role of Feeding Behavior and Nutrition        | Russ F. Mizell, III, Peter C. Andersen,             |
|           | in the Ecology of Homalodisca coagulata,           | Brent V. Brodbeck, University of Florida            |
|           | the Glassy-Winged Sharpshooter"                    |   |
| 1:25 p.m. | "Introduction to Pierce's Disease and Its Possible | Bruce Kirkpatrick, UC Davis                         |
|           | Cures: Insights from Temecula"                     |   |
| 1:50 p.m. | "Current CDFA Activities Related to the Glassy-    | Robert Dowell, CDFA                                 |
|           | Winged Sharpshooter"                               |   |
| 2:15 p.m. | "Current USDA Activities Related to the            | Edwin L. Civerolo, David H. Akey, Steven J. Castle, |
| -         | Glassy-Winged Sharpshooter and                     | M. Ciomperlik, D. Michael Glenn, Thomas J. Henne-   |
|           | Pierce's Disease in Temecula"                      | berry, Walker A. Jones, T. Poprawski, Gary J.       |
|           |  | Puterka, L. Wendel, USDA                            |
| 2:40 p.m. | "Interactions Among Organisms Driving the          | Matthew Blua, UC Riverside                          |
| 1         | Epidemic of Pierce's Disease in Temecula           | •   |

#### Winegrapes"

#### Break

| 3:15 p.m. | "The Temecula Glassy-Winged Sharpshooter<br>Program - Admire Treatment: Boom or Bust?<br>Success or Failure?" | Nick Toscano, UC Riverside                  |
|-----------|---|---|
| 3:40 p.m. | "Identifying Inoculum Sources and Transmission  | Heather S. Costa, Donald A. Cooksey,        |
|           | Pathways of Xylella fastidiosa"   | Carmen Gispert, UC Riverside                |
| 4:05 p.m. | "The Relationship of Glassy-Winged Sharp -shooter to San Joaquin Valley Citrus"                               | Elizabeth E. Grafton-Cardwell, UC Riverside |
| 4:30 p.m. | "Biological Control of GWSS/Current Status<br>and Research Results"   | David Morgan, UC Riverside                  |

Mixer 5:30 p.m. - 7:00 p.m. Fountain Terrace

Linnaean Games Doubletree III and IV 7:30 p.m. - 10:00 p.m.



### Tuesday, June 27

Poster Session Emerald I 8:00 a.m. - 5:00 p.m.

Judges of student competition: Raymond K. Yokomi, USDA, ARS, Vincent P. Jones, University of Hawaii

## Undergraduate:

"Oviposition Behavior of the Parasitoid of Eucalyptus Longhorned Borers" Heather Yaffee, Katherine Luhring, Timothy D. Paine, Jocelyn G. Millar, UC Riverside

#### **Ph.D.:**

"Oviposition of *Homalodisca spp.* (Hemiptera: Cicadellidae) and Associated Egg Parasitism on Citrus: Spatial Distribution"
"Effect of Host Larval Age on Sex Ratio of Progeny of *Syngaster lepidus* (Braconidae) Attacking *Phoracantha semipunctata* (Cerambycidae) and *P. recurva* Borers on *Eucalyptus camaldulensis*"
"Host Preference and Performance of *Bemisia argentifolii* on Poinsettia in Relation to Cultivar"

Ali K. Al-Wahaibi, Joseph G. Morse, UC Riverside

Andrea Joyce, UC Riverside, Lawrence M. Hanks, University of Illinois, Timothy D. Paine, Jocelyn G. Millar, UC Riverside

Laura O. Petro, Richard A. Redak, UC Riverside

#### Submitted:

"Colonization of Newly Constructed Wetlands by Diptera"

"Biological Control of Giant Whitefly"

"The Vine Mealybug in California Grapes"
"Biorational Approach to Suppressing American Cockroaches, *Periplaneta americana* (L), in Sewage Systems"

"Integrated Fruit Production (IFP) Program for Pears in the Hood River District, Oregon" "Increased Persistence of *Beauveria bassiana* Spore Viability Under High Ultraviolet-Blocking Greenhouse Plastic"

"Hessian Fly: Effects of Tillage and Cropping System on Population Densities"

"Economic Analysis of Harvest Frequency as a Management Tool for Tropical Nut Borer on Macadamia"

"Success\* Naturalyte\* Insect Control: New Uses and IPM Applications"

"IRAC US: The Insecticide Resistance Action Committee"

"Evaluation of IPM Practices for Controlling the Spread of Tomato Spotted Wilt Virus in Tomatoes" "Current Analysis of Citrus Tristeza Virus in Central California"

"Assessment of Insecticide Efficacy for Root Weevil (Coleoptera: Curculionidae) Control" Joe B. Keiper, William E. Walton, UC Riverside

Thomas S. Bellows, **Carol Meisenbacher**, Suzanne Mackzum, Andrea Briones, Jennifer Cruz, UC Riverside

Kris E. Godfrey, Joe C. Ball, CDFA Michael K. Rust, Eileen O. Paine, UC Riverside

Helmut Riedl, C. Seavert, Oregon State University

Heather S. Costa, UC Riverside, Karen L. Robb, Cheryl A. Wilen, UCCE, San Diego County

Leslie R. Elberson, Stephen L. Clement, Frank L. Young, Roger H. Ratcliffe, USDA ARS Vincent P. Jones, Maria Aihara-Sasaki, University of Hawai

Gary D. Thompson, Barat Bisabri, Jesse M. Richardson, Mike Lees, James P. Mueller, Brian L. Bret, Vanelle Carrithers, Dow AgroSciences Gary Thompson, Dow AgroSciences

John T. Trumble, William Carson, Gregory Kund, UC Riverside

Raymond K. Yokomi, USDA ARS, Elizabeth E. Grafton-Cardwell, UC Riverside, MaryLou Polek, Cen. Cal. Tristeza Erad. Ag., Mark E. Hilf, Edward L. Civerolo, USDA ARS

**Robin Rosetta**, Sven Svenson, Oregon State University

8:00 a.m. - Noon

## 10-Minute Paper Session

Emerald II

Moderator:

Patrick V. Vail, USDA ARS

| 8:00 a.m. | "Identification of Species in the Bactrocera    | David S. Haymer, Mei He, University of Hawaii |
|-----------|---|---|
|           | dorsalis Complex Using DNA Markers"             |   |
| 8:12 a.m. | "Development and Evaluation of Artificial Diets | Luis Matos, John J. Brown, Washington State   |
|           | for Rearing Loosestrife Root Weevil             | University                                    |
|           | (Hylobius transversovittatus Goeze)"            |   |
| 8:24 a.m. | "New Correlations of Electrical Penetration     | Yongxing Jiang, Gregory P. Walker, UC         |

|  | Graph Waveforms and Stylet Penetration by Bemisia argentifolii"   | Riverside  |
|--|---|--|
| 8:36 a.m.                              | "Field Attraction of Consperse Stink Bug,  Euschistus conspersus, to Synthetic Pheromone Sources"                             | Christian H. Krupke, Jay F. Brunner, Michael D. Doerr, Washington State University   |
| 8:48 a.m.                              | "Sex Pheromones of the Stink Bugs <i>Thyanta</i> pallidovirens and <i>Acrosternum hilare</i> (Heteroptera: Pentatomidae)"     | Heather L. McBrien, Jocelyn G. Millar, J. Steven<br>McElfresh, UC Riverside, Eileen Cullen, Frank G.<br>Zalom, Richard E. Rice, UC Davis                                   |
| 9:00 a.m.                              | "Temporal Polyethism and Cuticular<br>Hydrocarbons in Harvester Ants"   | Madeleine Tissot, Deborah M. Gordon, Stanford University   |
| 9:12 a.m.                              | "Expression of <i>Bacillus thuringiensis</i> Insecticidal<br>Crystal Protein Fragments for Control of Walnut<br>Insect Pests" | Patrick V. Vail, USDA ARS, Abhaya Dandekar,<br>UC Davis, J. S. Tebbets, USDA ARS, S. Leslie<br>Uratsu, G. H. McGranahan, C. A.Leslie, UC Davis                             |
| 9:24 a.m.                              | "Nutrient Flow and Implications for Baiting in the Western Subterranean Termite <i>Reticulitermes hesperus</i> "              | Karl Haagsma, Michael K. Rust, UC Riverside  |
| 9:36 a.m.                              | "A New Bipartite Geminivirus<br>Associated with Silverleaf Whitefly<br>and Melons"  | Eric Natwick, Thomas Turini, Keith Mayberry,<br>UCCE, Imperial County, Robert L. Gilbertson,<br>Pablo Guzman, Mysor eR. Sudarshana, Yuong-Su<br>Seo, Maria Rojas, UC Davis |
| 9:48 a.m.                              | "Potential Impacts of Salmon Habitat Restoration on Population Abundance of Pest Arthropods"                                  | Douglas B. Walsh, Washington State University  |
| 10:00 a.m.                             | "Why Schools Fail in Their Implementation of IPM"   | Marc L. Lame, Indiana University   |
| The Changin<br>Emerald III             | ng Face of California IPM Symposium   | 8:00 a.m Noon  |
| Moderator:<br>Elizabeth E.             | Grafton-Cardwell, UC Riverside  |  |
| 8:05 a.m.                              | "IPM in San Joaquin Valley Cotton: Moving Toward Ecosystem Management"  | Peter Goodell, Kearny Ag Center  |
| 8:30 a.m.<br>8:55 a.m.                 | "Pear IPM" "Prune IPM"  | Lucia Varela, UCCE Sonoma County   |
| 9:20 a.m.                              | "Grape Integrated Pest Management: A Tale of Three Commodities"   | Carolyn Pickel, Bill Olson, UCCE Walt Bentley, Kearney Ag Center   |
| 9:45 a.m.                              | Break   |  |
| 10:10 a.m.<br>10:35 a.m.<br>11:00 a.m. | "San Joaquin Valley Citrus IPM" "Eucalyptus Pest Management" "IPM in Ornamental Crops: Roses as a Model System"               | Elizabeth E. Grafton-Cardwell, UC Riverside<br>Timothy D. Paine, UC Riverside<br>Michael Parella, UC Davis   |

12 Noon - 1:00 p.m.

Lunch

## Fountain Terrace

## <u>Medical and Veterinary Entomology</u> <u>Anthony Cornell Symposium</u> <u>Emerald II</u>

**Moderator:** 

Anthony Cornell, Kearney Ag Center

Jason Rasgon, UC Davis Bruno Chomel, UC Davis Anthony Cornell, Kearney Ag Center

## 10-Minute Paper Session

1:00 - 5:00 p.m.

#### **Moderator:**

Jesse Richardson, Dow AgroSciences

| 4.00      | HA 1 1 0 1 . D . M . D                             |  |
|-----------|--|--|
| 1:00 p.m. | "Adult Sugarbeet Root Maggot Responses to          | Edward J. Bechinski, Sanford D. Eigenbrode,          |
| 1.12      | Plant Volatiles"                                   | Robert L. Stoltz, Lana M. Unger, University of Idaho |
| 1:12 p.m. | "Sampling Methods for Orange Wheat Blossom         | Edward J. Bechinski, David W. Wattenbarger           |
| 1.24      | Midge in Idaho"                                    | University of Idaho                                  |
| 1:24 p.m. | "Overwintering Biology of the Cotton Aphid,        | Jorge J. Cisneros, Larry D. Godfrey, UC Davis        |
|           | Aphis gossypii Glover, in California's San Joaquin |  |
| 1.26      | Valley"  |  |
| 1:36 p.m. | "Influence of Cotton Nitrogen Fertility and        | Larry D. Godfrey, Jorge J. Cisneros, K. E.           |
|           | Pyrethroid Application on Cotton Aphid             | Keillor, R. B. Hutmacher, UC Davis                   |
| 1 40      | Population Dynamics"                               |  |
| 1:48 p.m. | "Control of Wireworms in Potatoes with Telone      | Brian L. Brett, Dow AgroSciences, G. L. Reed,        |
| 2.00      | Soil Fumigant"                                     | Oregon State University, R. G. Beaver, SIARCO        |
| 2:00 p.m. | "Impact of Insecticides on Lettuce Physiology"     | Fikru Haile, <b>Jesse M. Richardson</b> , Dow        |
| 2.12      | HA '.' CTTL' 1Ct 1 F 't                            | AgroSciences, David L. Kerns, University of Arizona  |
| 2:12 p.m. | "Association of Thrips and Strawberry Fruit        | David D. Limburg, Frank G. Zalom, Douglas Shaw,      |
|           | Bronzing"  | UC Davis, Kirk Larson, UC Riverside, Steve Koike,    |
| 2.24      | WE are and a Lorent of Class Colored Westell       | UCCE, Salinas  |
| 2:24 p.m. | "Economic Impact of Clay Colored Weevil,           | Lynell Tanigoshi, C. Chen, G. W. Menzies,            |
|           | Otiorhynchus singularis on "Meeker" Red            | Washington State University                          |
| 2.26      | Raspberry"   | David C Iran or William Control II.                  |
| 2:36 p.m. | "Using Pheromones to Suppress Sap Beetle           | David G. James, Washington State University,         |
|           | Populations (Coleoptera: Nitidulidae) in           | Robert J. Bartelt, USDA-ARS, Chris Moore,            |
|           | Australian Stone Fruit Orchards"                   | DPI, Queensland, Australia                           |
| 3:00 p.m. | Break  |  |
| 5.00 p.m. | Dicun  |  |
| 3:24 p.m. | "The Effect of a Particle Film on Pear Psylla      | Richard J. Hilton, Southern Oregon Research          |

| 3:36 p.m. | and Two-Spotted Spider Mite Oviposition" "Feeding and Development of Codling Moth, Cydia pomonella, (L) Larvae on Apple Tree Leaves" | and Extension Center  Maciej A. Pszczolkowski, Luis Matos, John  J. Brown, Washington State University  |
|-----------|--|---|
| 3:48 p.m  | "Codling Moth Resistance in Walnuts and a<br>Potential Resistance Management Strategy"   | Robert A. van Steenwyk, Stephen C. Welter, UC Berkeley  |
| 4:00 p.m. | "Avocado Thrips Management with Success® and Agri-Mek® "   | Jesse M. Richardson, Dow AgroSciences, Joseph G.<br>Morse, UC Riverside, Wee Yee, UCCE, Kris E.<br>Tollerup, UC Riverside, Phil A. Phillips, Ben A.<br>Faber, UCCE, Gary D. Thompson, Brian L. Brett, |
| 4:12 p.m. | "Impact of a Cover Crop on Populations of<br>Arthropods in Citrus"   | Dow AgroSciences<br><b>Neil V. O'Connell</b> , Craig E. Kallsen, Blake L.<br>Sanden, UCCE   |