

# UC DAVIS

## AGRICULTURAL SUSTAINABILITY INSTITUTE

*College of Agricultural and Environmental Sciences*



*Orange County Great Park*

**AGRICULTURAL SUSTAINABILITY INSTITUTE AT UC DAVIS (ASI)**

**EXTERNAL ADVISORY BOARD ANNUAL MEETING**

**IRVINE, CALIFORNIA**

**NOVEMBER 20-21, 2013**

**MEETING REPORT**

**Prepared by: Courtney Riggle and Thomas P. Tomich, with contributions by Joanna Friesner**

***All photos by: Aubrey White, unless otherwise noted***

## *Summary*

In our effort to expand ASI's engagement around the state and to build on the successful 2012 meeting in California's Central Valley, the sixth annual meeting of the Agricultural Sustainability Institute's (ASI) External Advisory Board was held November 20-21, 2013 in Irvine, California. Twelve of the 26 board members, fourteen ASI staff members, and nine guests participated in the meeting. The 2013 meeting was chaired by board chair Howard-Yana Shapiro, and included site visits to several commercial and urban agricultural sites in Orange County. ASI gives special thanks to guests: Darren Haver, our meeting host at the South Coast Research & Extension Center, and Tom Larson, site visit host at the Orange County Great Park, for their generous hospitality, and extends our heartfelt appreciation to board member AG Kawamura, who worked closely with the ASI team to set up and host this whole adventure.

The 2013 meeting was designed to enhance ASI's presence and connection with agriculture in Southern California and to also serve as a communications workshop for some of ASI's core programmatic areas. The regional outreach piece was achieved through inviting a set of pivotal leaders from the region's agricultural-related communities to participate and also by engaging meeting participants directly in the region's agriculture via informative site visits. The communication workshop used short "Ignite" talks presented by staff to share tangible snapshots of work in key areas in order to:

- a) Engage the board's help in honing and improving messaging on important work areas to improve ASI's communication for both outreach and fundraising;
- b) Enable board members to digest and share this information with others.

In a debrief following the meeting, ASI staff expressed their delight in the overall outcome of the meeting, feeling that this was perhaps our most successful meeting-to-date, engaging the whole of the board and our guests in constructively improving the institute's messaging and also enabling our broader group to get the flavor of the local—and very unique—Southern California agricultural environment.

The remainder of this report will highlight meeting discussions and activities, then conclude with a quick recap of ASI's annual achievements (which were sent out as pre-reads and not discussed in depth during the meeting itself).



*Orange County Great Park*



### *2013 Meeting Participants*

Board members: Ashley Boren (Sustainable Conservation), Corny Gallagher (Bank of America Merrill Lynch), Carl Johnson (Del Monte Foods), AG Kawamura (Orange County Produce, LLC), Amparo Perez-Lemus (AP Lemus & Associates), Judith Redmond (Full Belly Farm), Rich Rominger (Rominger Farms), Howard-Yana Shapiro (Mars, Inc.), Rachel Surls (UCCE Los Angeles County), Tom Turini (UCCE Fresno County), Katharina Ullmann, (UC Davis Graduate Student Rep), Kase Wheatley (UC Davis Undergraduate Student Rep)

Guests: Eric Cutter (Owner, Enviroingenuity), Darren Haver (Center Director, South Coast Research & Extension Center), Tom Larson (Manager of Farm, Food & Landscape, Orange County Great Park), Kathy Nakase (Executive Director, Orange County Farm Bureau), Puon Penn (Technology & Venture Banking Group Head, Wells Fargo Bank), Evelyne Rominger (Farmer, Rominger Farms), Sandy Schubert (Undersecretary of the California Department of Food and Agriculture, alternate board member sitting in for Secretary Karen Ross), D'Artagnan Scorza (Executive Director, Social Justice Learning Institute), and Neelam Sharma (Executive Director, Community Services Unlimited).

ASI staff: Tom Tomich (ASI/SAREP Director), Kate Scow (Russell Ranch Director/ASI Deputy Director), Sonja Brodt (Agriculture, Resources, and the Environment Theme Coordinator), Gail Feenstra (Food and Society Theme Coordinator), Joanna Friesner (INFAS Network Coordinator), Melissa Haworth (CA&ES Development Director), Israel Herrera (Russell Ranch Superintendent), Carol Hillhouse (Children's Garden Coordinator), Joanna Normoyle (SA&FS Major Internship Coordinator), Bev Ransom (ASI/SAREP Program Manager), Courtney Riggle (ASI/SAREP Proposal Coordinator/Sustainable Sourcing Project Manager), Dianne Stassi (ASI Executive Assistant), Mark Van Horn, (Student Farm Director), Aubrey White (ASI/SAREP Communications Officer/Solution Center Coordinator)



## *Chair's Welcome (Howard Shapiro)*

Our meeting was framed with a reminder of both the challenges we, as a planet, are facing, and ASI's role in facing those challenges. A reminder was made that there is a big resource and allocation challenge looming when consumption rates of the developing world match those of the developed world, or America; that the costs of malnutrition to the global economy are unreasonably high—roughly equivalent to the size of Germany's entire GDP; that 45 trillion gallons of water—roughly 24% of total agricultural water—is wasted each year; and that the response to our wide array of challenges must lie in better science. But highlighting that science needs to be scaled up into practice at a broad level and noting a decided lack of attention on the “scaling” part of the problem.



Broadly, resilience is critical, but much of world is not making progress in this area. As humans and societies, we must ponder three fundamental questions:

1. Do we have a moral obligation to feed our populations?
2. Do we have a moral obligation to save the environment, or biodiversity?
3. Do we have a moral obligation to translate appropriate technologies, and not ban safe technologies?

Scaling up is about access to information, technology, and markets – to include farms of all types and sizes. Scaling is about aggregate impact, not size of farm operations.

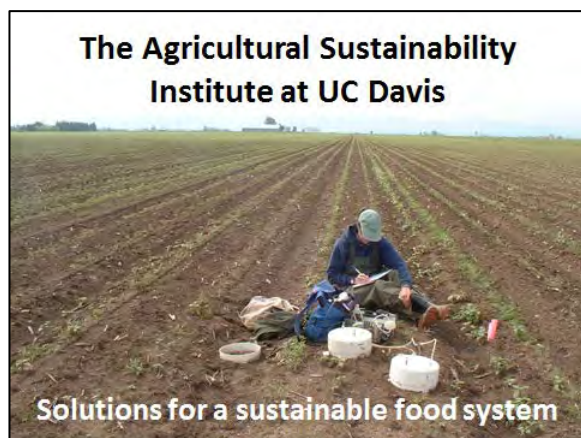
### ***So what must ASI do? What is the role of the institute in confronting these challenges?***

The institute's role is to develop comprehensive strategies, bring stakeholders together, and focus on the supply chain. We, the university, can contribute the model and help reshape how to conduct extension. Open source information is key. The ability to transfer knowledge is critical. ASI's role is to share information, raise flags, and make it all available to the broader world.

---

## **IGNITE TALKS: COMMENTS AND FEEDBACK ON ASI PRESENTATIONS**

### ***1) ASI Case Statement (led by Tom Tomich)***



#### ***Case Statement: Discussion to improve messaging***

##### ***Opening the message***

- Start with summation, then branch off to details; “start with the bang”
- Clarify mission statement up front
- Who is the audience for this? Do we target one broad audience, or create smaller tailored messages?
  - o A: Broadly: the people of California

**Case statement: Discussion (continued)...**

**Framing**

- Identify problem we are solving – what is commonality / why should we care?
  - o Spin as problem or opportunity?
- Use “need” instead of “problem” as framing...
  - o “feed the world”, 9 billion people, science & tech is message
  - o Rethink framing –science driven, not necessarily “feed the world”, more nuance
- CA ag vitality – important for CA for people/economy directly, as example/info source for broader world
- Message back to “sustainability” – not just feeding people, doing it for the long term
- “ASI” Name is commitment; need commitment and need mobilization
- What is sustainability? We’re here to educate/teach about what sustainability is
  - o Need to better define term for public

**Terminology/word choice**

- Avoid internal language/jargon; i.e.: significance of “Russell Ranch” needs to be explained
- “Research” is not the most effective term, “science & technology” is more tangible/solution focused
- “Science & tech” term can also causes fear in some contexts
- Use simple terms; i.e.: not economic viability, but “healthy food into the future”

---

**2) Solution Center on Nutrient & Irrigation Management (led by Sonja Brodt)**

**Solution Center: Discussion to improve messaging**

**Outreach/targets**

- How will farmers find these sites? How do we draw people to this site...?
- Extension is important partnership
- Farm orgs and extension will reach the growers through regular communication channels

**Visuals**

- Include visuals from referenced reports in presentation; i.e.: graphs from American Farmland Trust




**Content**

- Link problem/solution more linearly into proposal / “connect the dots”
- UC will be taken directly – need to be accurate
  - o Need review process for solution center – esp. re: policy.

### 3) Farm & Food System Workers (led by Gail Feenstra)

#### Key challenges this initiative addresses

- Farmworkers and food system workers are under-represented
- No clear summary of key issues from perspective of direct service organizations
- No clear idea of research/outreach that would be most useful



#### Farmworker initiative: Discussion to improve messaging

##### Focus

- Focus on social justice good, focus/activities is nice clear picture, careful of language
- “Human capital” framing / why is this community so important?

##### Context

- Start with numbers/images of real people
- Identify gap between where we are and where we need to be
- Link to other states /other populations effected

#### Community

- Important to acknowledge and leverage work of others, not “take it over”
  - o Emphasize:
    - inclusiveness of needs assessment process
    - Work on developing UC credibility in this space
    - Database of those working on farmworker issues
- Grassroots level communication / support is really critical
- Connect with farmers that do this successfully (find the good apples, don’t demonize at large)
- Politics and stakeholder perspectives will be challenges
- Don’t forget labor contractor piece

### 4) Value Based Supply Chains (led by Gail Feenstra)

#### VSBC: Discussion to improve messaging

##### Visuals

- Simplify visuals, complex charts are hard to follow
- Use limited text / too much text is hard to follow

##### Content

- Focus information /highlight example work, (e.g. only 3 or 5 projects)
- Small farmer work – general interest in farmer education/ re: packaging/marketing – LA farmers have need of this training
  - o ‘Food with a face’ good marketing byline
- Identify key problems that you are addressing, and how?
  - o Where is the break down between value creation and value capture? Why can’t some farmers capture this value?

#### What are Values-Based Supply Chains (VBSC’s)?

- Regional food supply chains with a premium
- Premium is based on products differentiated by “values”
  - Regional or local
  - Family farmed
  - Sustainable farming practices
  - Third party certified (humane, fair labor practices, etc)

## 5) Sustainable Sourcing of Global Agricultural Raw Materials (led by Courtney Riggle)

### **Sustainable Sourcing: Discussion**

#### Content

- Need to better explain who has participated / complexity of the conversation
- Want better sense of WHY this is important / better explain the background context
- Want more on impacts / interim outputs
- Project is abstract, adding a real-life example would help (e.g. Rice in CA)
- Like framing – getting straight to the point and then explaining how project is addressing issues
- Good job on showing connectivity – make sure to keep that simple



#### Visuals

- Use of imagery is powerful, flaming world is jarring and good
  - o Oil platform was a bit off, suggest changing this one
- Suggest keeping fonts consistent so aren't distracting
- A lot of content for time – may need to reduce
- Images were powerful, but would like more substance

#### General question

- How will this work apply in a practical sense? Eg: influence Walmart, other corporate sustainability practices?
  - o Response: we are developing the tools for use by companies and others as needed

#### Key project URL's (requested)

- Overall project: <http://sustainablesourcing.ucdavis.edu>
- Design: <http://asi.ucdavis.edu/research/ss/project-design>
- Participants: <http://asi.ucdavis.edu/research/ss/project-partners>
- Tools: <http://asi.ucdavis.edu/research/ss/sustainable-sourcing-platform-tools>

## 6) Experiential and Connected Learning (led by Joanna Normoyle)



### **Experiential Learning: Discussion**

#### Content

- Great recruitment video. Disperse!
- Emphasize growth of program up front / make more visible, esp. to enable push for additional staffing, other resources
  - o Need a timeline for the whole ~40 yr program
- Weave the experiences/experiential story in a more structured way



### ***Experiential learning: Discussion (continued)...***

- RE: Badges system
  - o Emphasise that this is a strategic integration w/social media
  - o Give more detail on WHAT the students are learning, rather than how it is being monitored (ie: more on the skills the badges represent than on the technical interface )
    - The whole learning process: problem-solving, innovation, leadership, etc is part of this story that should be highlighted
    - CSA program should be included here

### Visuals

- Better match images with story, in general
  - o Inc. explain what problem the students were solving in the problem-solving image
- Student farm is more beautiful than the chosen images. Find better?
- Currently use the opening photo again halfway through. Suggest changing that so doesn't feel like the end...
- RE: Number of words on slides: No consensus –some want more words, some like it brief

### General questions

- Internship providers spend a lot of time/resources teaching/orienting student interns; how can the university's program better prepare the students for these real-world roles?
  - o A: We had a challenge grant to give \$ to some local NGOs. This program should expand.
- When you say kids show up with different skill-sets, how do you find a place to plug them into your program?
  - o A: Using lots of peer-to-peer learning. There's horizontal learning between students of similar skill-sets, and then also vertical learning—where new students team up with more advanced students. All work quickly to become teachers for the newer students.

---

## ***7) ASI Endowment Campaign (led by Tom Tomich)***

### ***ASI Endowment: Discussion***

#### Content

- Clarify broad perspective on what ASI will accomplish overall
  - o What is the mission to be accomplished / ASI's contribution? (Following the other presentations, okay, but weak as a stand-alone)
  - o What does the \$50 million total include?
    - Provide break down of funding components / how they'll be directed
    - Don't use a pyramid for the funding imagery-use something that lays out what you have, the gap, what you need/dif levels of involvement. Using imagery that's relevant to ASI.

**The ASI Campaign**

A \$50 million campaign  
Endowment is our top priority

We've raised over \$16 million so far

Of this, more than \$12.5 million is endowment  
that will support ASI and its programs  
in perpetuity

**ASI** <http://asi.ucdavis.edu/about/funding>  
AGRICULTURAL SUSTAINABILITY INSTITUTE AT UC DAVIS [asi.ucdavis.edu](http://asi.ucdavis.edu)



### **ASI Endowment: Discussion (*continued*)...**

- Liked emphasis on youth/building the next generation of farmers in ASI's mission. Suggest using the figure of increasing # of students to show you're building the next generation.
- Suggestion to deliberately connect with Chancellor/new CA&ES Dean/Napolitano's vision/s
  - o Discussion pushback on that – suggesting that ASI's role is to lead the conversation/push the frontier of questions addressed
- Listing of your donors legitimizes your work, reinforces way that people can be donors; good that you close with a strong ask- not just give us \$.
- Presentation gave multiple ways to be involved and get engaged. Should add the next step / indicate **HOW**.
  - o Suggest not using term “donor”, but something related to ASI: pollinator, cultivator, or even contributor. Donor implies a distance between you and them...

### Visuals

- Liked the presentation- the soft, inviting fonts, the pictures- the first picture was brilliantly placed; and last one, too, evokes an emotional response
- RE: List of current endowments – no group consensus: some thought repetition of this was distracting, others liked how it was used to emphasize different focus areas

---

## *General Discussion*

- RE: Faculty Review of ASI
  - o Review gives strong signal that ASI is key
  - o Important emphasis is to get more researchers involved with research at Russell Ranch
  - o Very disappointing that the review did not consider/include the new science plan/revisioning for the Russell Ranch facility
- ASI is on the frontier of UCD – no need to be bound by “business-as-usual”/history; need to be forward looking
- Russell Ranch has made a quantum leap and is now one of the best on UCD campus
  - o Result of a total revisioning
- ASI has gained momentum/internal credence, and now virtually everyone sees how they can fit in or be a part.
  - o Those uncommon collaborators who stood on the sidelines in the past are now supporters and want to be involved.
  - o The urgency to be associated with ASI now is because they know it's the frontier for questions addressed, actions delivered.
- General need for better clarity on connection with President/Chancellor/UCD-level goals
  - o ASI's role is to help them see the larger picture / make the emerging challenges visible
  - o Relationship with World Food Center still unclear/to be worked out

## LOCAL SITE VISITS

### *UC South Coast Research & Extension Center (REC) (Host: Darren Haver)*



### *Orange County Great Park (OCGP) (Organizer and overall host: AG Kawamura)*

#### **Stop 1: Farm and Food Lab (Host: Tom Larson)**



*Host Tom Larson explains the Great Park*



*Amparo Perez-Lemus and Sandy Schubert*





## Stop 2: Veteran's Agricultural Learning–Opportunities & Resources (VALOR) Program Farm (Hosts: AG Kawamura and Eric Cutter)



*AG Kawamura and Eric Cutter*



*VALOR area + AG's farm plots*



*Tasting!*



*Vertical garden*



*Rich Rominger and Eric Cutter*



*AG Kawamura, Howard Shapiro, Rachel Surls, Bev Ransom  
(Photo by Kate Scow)*



### Stop 3: Makers Depot, Palm Court Arts Complex Artists' Studio (Host: Tom Larson and Tom Grimm)



*Makers Depot Director Tom Grimm*



*Printed Quilt  
(Photo by Kate Scow)*



*3-D Printing*



*Great Park Design Studio  
(Photo by Kate Scow)*

## *RECAP FROM PRE-READS: ASI Highlights of the Year (in brief)<sup>1</sup>*

### **New and Noteworthy Items:**

#### **1) Irrigation and Nutrient Management**

- a. Work began on the first UC SAREP Solution Center, an online and in-person platform to share information about sustainable farming practices, focused on irrigation and nutrient management.
- b. Six of the eight chapters of our California Nitrogen Assessment are under or have completed scientific review. The final two chapters are on track for review in December.
- c. ASI staff and affiliated faculty are serving on a California Department of Food and Agriculture Task Force to design a Nitrogen Tracking and Reporting System to protect groundwater from nitrate pollution.

#### **2) Farmworkers and Food System Workers**

- a. A heat assessment tool funded through a SAREP grant to the California Institute for Rural Studies (CIRS) was published in Spanish this year, targeting those who work outside to help determine the level of risk and steps to reduce it. The tool is live on the CIRS web-site in both English and Spanish: <http://www.cirsinc.org/index.php/publications/current-publications.html>
- b. SAREP is launching a farmworker activity study funded by the California Department of Pesticide Regulation to assess pesticide exposure.
- c. SAREP's farmworker needs assessment and database of researchers working on farmworkers' issues will be available online soon. As a next step, discussion is underway on possible collaboration with Harvard University on the study of agricultural extension systems and farmworkers.

#### **3) Value-based Supply Chains**

- a. SAREP held two Farmer Wholesale Tours bringing small-scale and ethnic farmers to wholesale markets, food hubs, distributor/processors, restaurants and grocery stores. The tours received high media coverage and rave reviews from participants.
- b. In June, SAREP and Student Farm staff organized a one-day Farm to School Forum attended by almost 100 people, as culmination of a three-CDFA grant to enhance farm to school efforts in three school districts – Winters, Oakland and Redding.

#### **4) Sustainable Sourcing of Global Agricultural Raw Materials**

- a. The Sustainable Sourcing Project achieved the full set of first stage milestones, including successful "proof of concept" testing of algorithms to focus the number of indicators needed to cover comprehensive sets of sustainability issues. Several prototype tools are available for exploration, including the Corporate Communications of Sustainable Sourcing Database, a catalog of public communications about sustainable sourcing from the world's

---

<sup>1</sup>See 2013 Strategic Snapshot for full highlights: <http://asi.ucdavis.edu/about/advisory-board/Strategic%20Snapshot%20at%20November%202013.pdf>

See 2013 EAB Meeting webpage for all pre-reads and updated materials: <http://asi.ucdavis.edu/about/advisory-board/Board-meetings/2013-external-advisory-board-meeting>

largest food manufacturing corporations. All prototype tools are on the project website: <http://sustainablesourcing.ucdavis.edu>.

- b. The project hosted an intense, high-level stakeholder meeting in Washington, D.C., last December, convening 18 leaders representing global food manufacturing, finance, commodity trading, farming and ranching, environmental and social advocacy, and other policy-shapers in the global food system.
- c. In August, the project hosted a two-day meeting in Asilomar for a diverse group of computer science and information technology-focused professionals. The meeting generated big ideas on how the project can be developed as an interactive web-based “semantic wiki” platform to inform sourcing of agricultural raw materials, drawing on the project’s database linking 44 integrated sustainability issues, more than 300 component issues, and over 2000 associated indicators.

#### 5) Experiential and Connected Learning

- a. Students volunteering and interning at our Student Farm increased 150% over the past five years.
- b. The School Gardening Program held its first webinar for trainers of Garden Enhanced Nutrition Education.
- c. The Ecological Garden hosted 1,600 children and 250 chaperoning adults from 60 classrooms around the region.
- d. There now are 81 students in the Sustainable Agriculture & Food Systems (SA&FS) major, compared to 30 in Fall 2012 and 10 in Fall 2011. SA&FS students completed more than 100 internships across the US and in 9 other countries, including Jamaica, Ecuador, China, and Costa Rica. Many students intern on farms in Northern California and at government agencies in Sacramento.

#### 6) Fundraising and Related Highlights

- a. Commitments so far from the TomKat Charitable Trust, Gaia Fund, Columbia Foundation, and the UC Davis Plant Sciences Department to endow an Agroecology Professorship total \$550,000. December 2014 is the deadline to reach our \$1 million goal.
- b. Our Adopt-an-Acre program exceeded the \$25,000 threshold necessary to create the Russell Ranch Sustainable Agriculture Facility Endowment.
- c. Since 2008, ASI has secured more than \$1 million in funding for the SA&FS major.
- d. The J.G. Boswell Company purchased a state-of-the-art planter for the Russell Ranch Sustainable Agriculture Facility, which makes possible many more crops and rotations in the new science plan.
- e. Russell Ranch staff eliminated the facility’s operating deficit this year through greater efficiency, increased revenues from crop sales, and by marketing their land management services to other units at UC Davis.

### **Faculty Review of ASI:**

All are invited to review the report of the first-ever Faculty Review of ASI by the College of Agricultural & Environmental Sciences at UC Davis. The review committee’s report, along with ASI comments and responses can be found on pages 8-13 of this year’s Strategic Snapshot.<sup>1</sup> We see this review as a milestone in the development of ASI, with strong endorsements for our ongoing work and insightful recommendations from our CA&ES faculty colleagues.



## CONTACT LIST

### AGRICULTURAL SUSTAINABILITY INSTITUTE

**Thomas P. Tomich**

Director, ASI and SAREP  
University of California, Davis  
(530) 752-3915 or (530) 574-2503  
tptomich@ucdavis.edu

**Kate Scow**

Deputy Director, ASI;  
Director, Russell Ranch Sustainable Agriculture  
Facility;  
Professor, Department of Land, Air and Water  
Resources  
University of California, Davis  
(530) 754-9668  
kmscow@ucdavis.edu

**Dianne Stassi**

Executive Assistant  
ASI  
University of California, Davis  
(530) 752-3915  
dstassi@ucdavis.edu

**Melissa Haworth**

Director of Major Gifts  
College of Agricultural and Environmental Sciences  
University of California, Davis  
(530) 754-8562  
mdhaworth@ucdavis.edu

**Bev Ransom**

Program Manager  
ASI/SAREP  
University of California, Davis  
(530) 754-8546  
baransom@ucdavis.edu

**Theme Leaders****Sonja Brodt**

Academic Coordinator, Agriculture, Resources and  
Environment  
ASI/SAREP  
University of California, Davis  
(530) 754-8547  
sbbrodt@ucdavis.edu

**Gail Feenstra**

Academic Coordinator, Food Systems  
ASI/SAREP  
University of California, Davis  
(530) 752-8408  
gwfeenstra@ucdavis.edu

**Mark Van Horn**

Academic Coordinator, Education and Leadership  
Director, Student Farm  
University of California, Davis  
(530) 752-7645  
mxvanhorn@ucdavis.edu

## 2013 EXTERNAL ADVISORY BOARD

*\*Executive committee*

### Current members (in alphabetical order):

**Marcus Benedetti**, President & Chief Executive Officer, Clover Stornetta Farms, Petaluma, CA

**Ashley Boren\***, Executive Director, Sustainable Conservation, San Francisco, CA

**John Diener**, President, Red Rock Ranch, Five Points, CA

**Michael Dimock**, Executive Director, Roots of Change, San Francisco, CA

**Greg Drescher**, Vice President, Strategic Initiatives & Industry Leadership, Culinary Institute of America, St. Helena, CA

**Cornelius Gallagher**, Senior Vice President, Food, Agriculture and Wine Executive, Bank of America, Roseville, CA

**Martha Guzman Aceves**, Deputy Legislative Affairs Secretary, Office of Governor Edmund G. Brown, Jr., Sacramento, CA

**Carl Johnson**, Executive Vice President, Brands, Del Monte Foods, San Francisco, CA

**Jonathan Kaplan**, Senior Policy Specialist at the Natural Resources Defense Council (NRDC), San Francisco, CA

**AG Kawamura\***, Founding Member, Orange County Produce, Irvine, CA

**Craig McNamara**, President, California State Board of Food and Agriculture, Sacramento, CA; President, Sierra Orchards; and Co-Founder, Center for Land Based Learning, Winters, CA

**Haider Nazar**, Chief Executive Officer, Verliant Energy Partners, Walnut Creek, CA

**Amparo Perez-Lemus**, AP Lemus & Associates Marketing and Public Relations, Davis, CA

**Judith Redmond**, Owner and Partner, Full Belly Farm, Guinda, CA

**Richard Rominger\***, Rominger Farms, Winters, CA

**Karen Ross**, Secretary, California Department of Food and Agriculture, Sacramento, CA

**Howard-Yana Shapiro\***, Director, Plant Science & External Research, Mars Inc, and Co-founder, Seeds of Change, McLean, VA and Davis, CA; ASI Board Chair

**Rachel Surls**, Sustainable Food Systems Advisor, UC Cooperative Extension Los Angeles County, Los Angeles, CA

**Thomas Turini**, Vegetable Crops Farm Advisor, UC Cooperative Extension Fresno County, Fresno, CA

**Nita Vail**, Chief Executive Officer, California Rangeland Trust, Sacramento, CA

**Paul Wenger**, President, California Farm Bureau Federation, and farmer, Modesto, CA

### Ex officio members (in alphabetical order):

**Barbara Allen-Diaz**, Vice President, Agriculture and Natural Resources, University of California

**Mary Delany**, Interim Dean, College of Agricultural & Environmental Sciences, University of California, Davis

**Katharina Ullmann**, UC Davis Graduate Student Representative, Department of Entomology

**David Wehner**, Dean, College of Agriculture, Food and Environmental Sciences, Cal Poly, San Luis Obispo

**Kase Wheatley**, UC Davis Undergraduate Student Representative, Sustainable Agriculture & Food Systems