

1 U.S. ENVIRONMENTAL PROTECTION AGENCY

2

3 PESTICIDE PROGRAM DIALOGUE COMMITTEE MEETING

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6

7 Thursday, May 9, 2019

8

8:30 a.m.

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DAY TWO

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- 6 Lori Ann Burd
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1 P R O C E E D I N G S

2 DAY TWO - MAY 9, 2019

3 MR. KEIGWIN: All right. Good morning,
4 everybody. Thanks for joining us early, or at least
5 earlier than we had originally planned. There's been
6 a suggestion by somebody at the head table whose name
7 is not Sheryl Kunickis that we practice our School
8 House Rock thinking. Would you like to help?

9 MR. MESSINA: No one is seconding that, so I think
10 we're good. I think we're good.

11 MR. KEIGWIN: You suggested. I second.

12 MR. MESSINA: I did not suggest it.

13 MR. KEIGWIN: Anyway, with that levity, so
14 we're going to pick up from where we left off last
15 evening on UAVs. So we had about six or seven
16 presentations yesterday afternoon. But what we did
17 not have time for was to look at the charge questions
18 that had been prepared for that session to begin to
19 get some discussion going amongst the PPDC members.

20 So Shannon is going to check that and I'll
21 ask Ed to lead us through the next half-hour. Alex
22 Dunn is still expecting to join us at about 9:00 a.m.,
23 so if we haven't finished up the discussion by then,
24 we'll take a pause so that Alex can provide some
25 remarks to us and then we'll move on from there.

1 Ed?

2 MR. MESSINA: Great. Well, thanks, everyone,
3 for the presentations we had yesterday. And while
4 we're putting up the charge questions, any other
5 questions, too, that folks think we need to discuss in
6 this area. So go ahead, Jay.

7 MR. VROOM: I just wanted to comment on both
8 the hemp session, whether it's industrial or
9 agricultural or whatever the right descriptor is, and
10 also the UAV sessions yesterday. I felt like they
11 were very comprehensive and provided great background
12 for the PPDC and Agency staff and wanted to compliment
13 you guys. We probably aren't qualified yet in an
14 advanced college degree in either topic, but we ought
15 to get at least two or three college credits for being
16 able to receive those presentations and really have
17 some dialogue there. So I look forward to the
18 additional conversation we'll have about UAVs.

19 MR. MESSINA: Yes, thanks. And thanks to
20 Shannon and folks who -- and behind the scenes, Liza,
21 who reached out and really tried to sort of canvas,
22 you know, who are the folks in this area that are
23 experts. And we'll continue with those conversations.

24 Jay, you want to say something else?

25 MR. VROOM: Yeah. And just in the respect

1 with the conversation and where I think I sensed the
2 Agency is at with regard to addressing the hemp
3 pesticide availability question that -- it feels like
4 you're in a really good spot in terms of point of
5 departure and thinking through how to address this.
6 And I believe it will not only help the Agency and
7 eventually the PPDC in the future on that topic, but
8 also it's really a precursor for other forms of
9 marijuana and pesticide intersection, which the Agency
10 and the industry have struggled with in the past. And
11 I think this will give you a good way to step-wise
12 through all of those future challenges, many of which
13 are actually here today with the state legalizations
14 that have already occurred.

15 There was some mention of Canada. I know
16 PMRA has struggled mightily with the fact that their
17 Federal Government has legalized marijuana
18 recreationally nationwide but really didn't give them
19 the resources or a lot of guidance around how to deal
20 with ag inputs, including pesticides. So continuing
21 to have a strong dialogue with PMRA on all these
22 things is really going to be important. Thanks.

23 MR. MESSINA: Thanks, Jay. Liza had next?

24 UNIDENTIFIED MALE: Nina was up.

25 MR. MESSINA: Nina? Nina.

1 MS. WILSON: Thanks. Sorry. And I just
2 wanted to clarify some of my comments yesterday,
3 because I was a little bit confused about the charge
4 questions with regard to what the guidance is, because
5 in my mind having been somebody who spent a lot of
6 time doing residue studies the Agency has a very, very
7 good set and very thorough set of how to do -- you
8 know, how to do studies for residue definitions and
9 for all the process commodities.

10 And I know that the biological industry is,
11 you know, very happy to have products that, you know,
12 you would consider first. But I think we're very
13 interested in making sure that we sort of go forward
14 with the conventional and trying to figure out what
15 that is because biological products work best in an
16 IPM program with other products as well. And so we
17 would be very interested in making sure we understand
18 what that guidance is.

19 And the other question I had about that is is
20 there not an industry, a hemp industry organization,
21 that is --

22 MR. MESSINA: So there is a cannabis
23 association. And so as we navigate addressing the
24 legal uses of hemp, we're focused on that aspect,
25 which that industry is maybe more focused on the

1 marijuana growing for, you know, that purpose.

2 MS. WILSON: Mm-hmm.

3 MR. MESSINA: I think there are folks in that
4 space that are also interested in the hemp space and
5 they are sort of -- we're talking to the folks who are
6 interested in the hemp cultivation. So -- and there
7 isn't yet a specific association that deals solely
8 with hemp.

9 MS. WILSON: Okay.

10 MR. MESSINA: And then to your first question,
11 I agree, you know, we have a lot of the capabilities
12 here in house. I think the varying uses and how
13 they're used and sort of getting a sense of that, and
14 one of the charge questions on hemp was worker
15 exposure was really one of the questions and how is it
16 being used differently so we can understand how we're
17 going to conduct our risk assessments and what studies
18 are sort of being required.

19 But I agree, you know, we have that
20 capability. But I think because it's a new area and
21 we're new to it, we're just sort of asking those
22 questions so we can be strategic about it.

23 MS. WILSON: Yep. Thanks. I appreciate
24 that. And the other comment I made, again, having
25 someone who's been watching the regulations change as

1 science changes, as agronomics changes, you know, it
2 sounds like it's a very dynamic and changing industry.
3 And so I think just defining what we know now and then
4 being able to come back and refine what the guidance
5 is every time, you know, we see that there's a big
6 change, I think would be helpful as well rather than
7 waiting for complete clarification. Because I'm not
8 sure that there's ever going to be.

9 MR. MESSINA: Yeah. Fair point. And when Jay
10 was making his great remarks about how we're being
11 well positioned, those are the questions that start
12 raising in my mind because I think the -- there are
13 some -- maybe some quick wins or things we can do
14 quickly, right, and get products registered, but I
15 think there's a bit of a discussion in terms of the
16 studies that are going to be required and how they're
17 going to -- how we're going to review those. That's
18 going to take a little bit of time.

19 And so I want to manage people's expectations
20 there at the same time that the Agency is -- the
21 growers are going to be, you know, asking for products
22 to become on market and we'll have to work with
23 registrants who are willing to have those on labels
24 and there's a lot of Congressional interest around
25 this. So all of those things sort of pop into my head

1 as I think about, you know, how we're going to solve
2 this problem collectively and provide tools for folks.

3 Liza is next, yeah.

4 MS. TROSSBACH: So I have some comments
5 regarding the UAVs. As Rose Kachadoorian isn't able
6 to participate this morning since she's on Oregon
7 time, I don't know where her dedication is. She
8 should have -- no. She could have gotten up at 5:30.
9 I don't know what her problem -- so -- but she had
10 some kind of comments/questions, so I wanted to offer
11 those to the group regarding the data sources that may
12 be available; of course the agrotechnology workgroup
13 just wants to offer its, you know, support to the
14 Agency in the collection of any information from
15 pesticide regulatory officials about what individual
16 states are doing in regard to their certification, you
17 know, licensure requirements and questions and
18 concerns that they may have. And, of course, we can
19 collect information and anything that may be needed.

20 Also, regarding the development of the
21 protocols for drift studies, there was a question
22 about, you know, who may do that and some potential
23 expertise, and we would offer that much like with the
24 hemp and the research, there are a lot of land grant
25 universities that are doing work with UAVs currently

1 and looking at drift patterns and their uses for
2 agricultural, you know, whether for scouting or for
3 pesticide applications, a whole variety of things. So
4 certainly that would be, you know, a data source
5 there.

6 And then Rose's final question was, you know,
7 would something potentially like the PR notice that
8 was used for chemigation be a way to address any of
9 the, you know, labeling issues, you know, that should
10 come up. And maybe that can't be answered now, but
11 just kind of in terms of that, if that might be a
12 viable solution after the presentation by Damon with
13 the differences between aerial applications and the
14 use of UAVs and some of those things.

15 There seems to, you know, be questions now
16 about some of those -- you know, what is the exposure,
17 the drift situation. You know, those types of things
18 that I think at least states or pesticide regulatory
19 officials kind of just assumed it was much like aerial
20 applications just because it's in the air. And so
21 you're thinking, well, it's probably pretty similar.
22 But some of those points that were brought up, I
23 think, certainly the agrotechnology workgroup are
24 going to want to find out more about it, and we assume
25 the Agency as well.

1 And then just two comments from my
2 perspective. I just wanted to kind of remind the
3 group usually you talk about the use of UAVs in
4 agricultural settings and maybe right-of-way work in
5 forestry and some of those initiatives. But just
6 remember there are non-agricultural applications or
7 (inaudible) that may be used, what may be considered,
8 you know, structural. It could be around a residence
9 or a commercial building. It could be lawn
10 ornamental. It could be using a UAV to get to a
11 higher structure, you know, in a building or a higher
12 portion of the structure. So just to kind of as we
13 talk about labels and modeling and all that, just to
14 remember there are non-agricultural possibilities for
15 this technology.

16 And then finally as we've talked about with a
17 lot of things, really the consistency and responses
18 and distribution of information is really important
19 obviously to the pesticide regulatory officials, as
20 well as the regulated industry particularly as
21 decisions are made regarding does this fall under
22 aerial application, what are -- you know, do current
23 labels allow the use of UAVs as an application.
24 Equipment -- it's really important for us because many
25 states now are in the process of trying to determine

1 will UAVs fit in their current aerial applicator
2 categories; does a new category need to be developed;
3 do manuals and exams need to be changed, those types
4 of things. And we're seeing more and more companies
5 expressing interest in the use of these. And so it's
6 really important to have that information, one,
7 consistent, timely, and then broadly distributed.
8 Thank you.

9 MR. MESSINA: Thank you, Liza. I think Amy was
10 next.

11 MS. ASMUS: I think I want to kind of echo some of
12 the last comments. It feels in the field right now a
13 little bit like when dicamba seed was approved and
14 we had no tools to use over the top. Hemp is out
15 there. It's a crop. And we struggle to find the
16 correct tools to use over the top. And so I ask you
17 to move forward with your assessments in a timely
18 fashion so that we are not put in the middle out there
19 with people that have permits and are using and
20 planting the crops, and then they come to us for pest
21 management. And we really want to be responsible in
22 our use of that pest management.

23 So I would really emphasize that those that
24 you can put out there quickly so that we have the
25 parameters on how to use them safely and what we can

1 actually use over the crop is out there. We would
2 truly appreciate that.

3 The same thing with drones. We have the toys
4 out there and not the direction to use them properly.
5 And so I would also ask whatever is decided, please do
6 that in a timely fashion and be consistent in your
7 education of how we can use them.

8 I was glad to hear in the presentation
9 yesterday that you were working with FAA because I
10 think there are other applications of the drones, and
11 I do think that they need to be used responsibly when
12 we do use them. So thank you for looking into it, but
13 know that we do have these things on the ground now
14 and we look for guidance to use those tools correctly.
15 Thank you.

16 MR. MESSINA: Thank you, Amy. I think Dan was
17 next.

18 MR. KUNKEL: Thanks, Ed. Yeah, I just wanted
19 to reiterate, I think at our last meeting I indicated
20 the importance of drone use for specialty crops.
21 There's a lot of small areas that need treatment,
22 difficult to get to sometimes. So we're very
23 interested in seeing how this develops.

24 I think some of the exemptions that Damon
25 referred to yesterday would be very important to minor

1 crop spot treatments. We also use them for scouting.
2 They're used for scouting and also dispersing some
3 beneficial insects as well. So some of the other
4 utilities for drones.

5 MR. MESSINA: Thanks, Dan. Damon?

6 MR. REABE: Thanks. I wanted to reiterate
7 something to kind of provide some perspective on my
8 presentation. And that is we talk -- it was mentioned
9 quite a bit about a level playing field. And
10 ultimately as these devices scale up, our industry is
11 going to embrace these tools. So the use of UAVs in
12 agricultural settings I'm sure is coming. At some
13 point it's going to be very feasible on large scales.
14 And it's very likely that companies like my own will
15 end up purchasing these devices when they're
16 economically feasible for the type of work we're
17 already doing.

18 So it's not an issue of a level playing field
19 or a man versus unmanned aircraft. It's a perspective
20 of if, for instance, I could go to Air Tractor, a
21 agricultural aircraft manufacturer, and let's say they
22 produced an unmanned aerial vehicle that was of a
23 multi-rotor design today that's scaled and capable of
24 doing what my manned aircraft are currently doing, I
25 simply wouldn't buy one because I don't know how it's

1 going to perform in the field in regards to spray
2 drift.

3 So the -- in my opinion -- and I know I made
4 it clear in the presentation, the path forward for
5 this is very clear because it's been done already.
6 And so I -- it seems to me that the registrants, the
7 drone manufacturing industry, is going to need to
8 replicate what the spray drift task force did back in
9 the early '90s.

10 And so it's a real clear path. It's not
11 fast. But it didn't take long. When the spray drift
12 task force formed until they perfected the ag drift
13 model was a matter of about two to three years. There
14 was additional refinements that happened over many
15 years after that and it took a long time before the
16 EPA actually adopted it through the entire risk
17 assessment process.

18 But it's a -- it's a really great roadmap.
19 And so I think that's just -- from my perspective, I
20 think that's really great guidance to provide the EPA,
21 and the EPA can take that to the interested parties
22 and aid them in what the road map looks like.

23 MR. MESSINA: Thank you, Damon. Sharon?

24 MS. Selvaggio: Two comments. First, it was
25 illuminating yesterday to hear all the discussions.

1 And I think Damon brought up some really interesting
2 points with regard to the drift still being relatively
3 poorly understood given the number of different kinds
4 of devices there are and the way the technology is
5 changing.

6 And so I think under those circumstances, the
7 EPA really needs to adopt a conservative approach when
8 considering off-target impacts. And so I -- you know,
9 until the data is in that it's sufficient for really
10 truly understanding sort of site-by-site and device-
11 by-device really what the kind of drift implications
12 are. So that's one comment.

13 The other comment that I had was that I have
14 a little bit of concern about how efficient these
15 devices are in reaching places that traditionally we
16 haven't been able to reach. That was kind of brought
17 up by the person who talked about the wetland spraying
18 and -- I can't remember if it was Texas or Florida,
19 some place. But -- and so I guess a question arises
20 for me about if we can get that efficient and reach
21 100 percent of the habitat with this great
22 effectiveness, it seems to me like we're creating this
23 selective pressure that hasn't existed in the past and
24 that we may end up with the potential for resistance
25 developing where we haven't had to deal with that

1 before. So I think that's going to be something that
2 EPA will need to watch for. So.

3 MR. MESSINA: Okay, thanks. Anyone on the
4 phone? I don't see any comments here. Oh, okay.
5 Yeah, Amy, sure.

6 MS. LIEBMAN: I just wanted to -- I thought it was
7 a really interesting and educational session yesterday.
8 It introduced us to a world that we don't often think
9 about. But I thought that -- was it Rose -- was it
10 Rose that spoke? I thought she brought up an
11 interesting point about the AEZ issues and the
12 application exclusion zone.

13 And regardless of what happens with the AEZ
14 that the EPA now is trying to change, that the idea
15 that you have to stop application when you see a
16 worker or you see a bystander is a good concept. I
17 think it's a concept that everyone in here can agree
18 that we don't want to spray people. And so I just
19 want us to really, as we move forward and we look at
20 the research and we look at the evidence and we think
21 about how these will impact, you know, the world, we
22 need to remember the human being part of it. And
23 there's a lot of excitement with it and some of it's
24 like a no-brainer, like why wouldn't you do this? But
25 there's other pieces of it that are real-world

1 applications.

2 And I think your photo showed when you were
3 showing the -- some of the drift, there were actually
4 two people in -- you know, that were near there. So I
5 just want to make sure that we are considering the
6 human factor and we recognize that we can have all the
7 models and, you know, everything perfect. But there's
8 still the human component that we need to pay
9 attention to.

10 MR. MESSINA: Thank you. Damon?

11 MR. REABE: You bring up a great point, Amy.
12 In regards to application exclusion zones, we've
13 talked about it in the presentation. Currently --
14 kind of addressing Amy's concerns, I guess, currently
15 the Federal Aviation regulations require the device to
16 be within line of sight at this time any time an
17 unmanned aerial vehicle is being operated, which I
18 expect that to change. It's just a matter of time
19 before there will no longer be a line-of-sight
20 requirement.

21 And I think the application exclusion zone
22 piece of this, it's going to be important to ensure
23 that these devices have the proper cameras so that the
24 operator, who is not near the site and not able to see
25 the vehicle, has some means of seeing people.

1 And I don't know what that camera would look
2 like. I don't know what type of display we're talking
3 about for the operator. But that's a huge part of
4 unmanned technology that is missing when it comes to
5 pesticide application.

6 I had a -- I visited with EPA staff that's
7 here with certification at one of the breaks and I was
8 explaining I just recently, in preparation for this
9 meeting, I treated 3,000 acres of alfalfa prior to
10 coming to this meeting.

11 And I was thinking about all of the
12 observations that are done while I performed these
13 applications. And I -- and I realize that I'm
14 observing what's happening around the treatment area,
15 a radius of approximately a mile and a half. Because
16 I'm not looking just immediately around the treatment
17 area. I want to know is somebody riding a bicycle
18 down the road? Is there a jogger, a motorist? What -
19 - anyone that's going to come near this treatment
20 site, I need to know that they're on their way.
21 Right?

22 And so I thought to myself, how would that
23 piece of this -- how would the operator of an unmanned
24 aerial vehicle know that this is taking place? And I
25 think that's a -- that's a big part of what we're

1 doing here in this meeting when we're discussing UAVs,
2 is a huge consideration.

3 Frankly, the spray drift risk assessment is a
4 simple plan, a simple process, that's well laid out.
5 But now how do we ensure that, as Amy said, that we're
6 not accidentally spraying people? And that's a huge
7 part of our job. That's label language that's
8 currently there that is -- that is, in fact, law, and
9 how do you even -- even beyond an application
10 exclusion zone, how do you ensure that you're
11 complying with the label statement that says "Do not
12 allow this product to be directly sprayed or drift
13 onto persons." Right? And how is that going to be
14 accomplished. That's a -- that's a difficult thing to
15 do with an unmanned vehicle.

16 MR. ESSINA: Jay and Sharon? Jay and then
17 Sharon.

18 MR. VROOM: So first I'd like to acknowledge
19 the thoughtful approach that the ag aviation industry,
20 Damon and AAA and Andrew, are bringing to this
21 subject. They've already offered a lot and I think
22 they've got a lot more to offer to EPA's
23 consideration.

24 Second, I think the more holistic engagement
25 that we saw yesterday from the presentations that

1 include both obviously, you know, what Liza represents
2 from AAPCO, SFIREG, that comprehensive engagement,
3 USDA's, I'd encourage you to think about more active
4 engagement with FAA than whatever has happened
5 already. And I, too, am glad that that's started.

6 But I think that Andrea and Damon and AAA can
7 help you a lot with understanding some of the blind
8 spots, frankly, that FAA has shown in this space in
9 the past. I think they can be engaged in a more
10 positive way. And I think EPA has the opportunity to
11 do that outreach and affect some of that additional
12 engagement in a more positive way.

13 And then, third, something that I don't think
14 we've touched on much in any of the presentations or
15 commentary is the role of UAVs in advancing and
16 accelerating scientific research, including research
17 on pesticides and other agricultural technologies. If
18 you talk to folks at the risk management Agency over
19 at USDA -- maybe you already have, but you'll see
20 that they're deploying the use of UAVs for crop damage
21 assessment with regard to claims for crop insurance,
22 creating a whole lot more precision around that
23 functionality for that part of the USDA. There are
24 things that they will learn in devising and advancing
25 UAV technology for those purposes that can benefit

1 what EPA and OPP need to think about.

2 And then lastly I think there's a role, a
3 very significant role, for UAVs in integrated pest
4 management going forward. And I think that ought to
5 be a footnote that ought to be captured and kept into
6 the focus of OPP going ahead. Thanks.

7 MR. MESSINA: Thank you, Jay. Sharon?

8 MS. SELVAGGIO: Yeah. Just a followup comment.
9 And I've been thinking about this and I just don't -- I'm
10 not really sure of the role of EPA. But I -- you
11 know, it occurred to me because I think I mentioned
12 last time we had one of these presentations that, you
13 know, a family member of mine has a drone. And just
14 looking at the amount of data that these things can
15 collect and thinking about pesticide application,
16 record-keeping, reporting, incidents, privacy, all
17 those kinds of things we have the capacity to have the
18 kind of records that we may never have had before.
19 Who will have access to those? How long will they be
20 required to be kept? You know, these are things that
21 I think are important to think about as well. So just
22 a comment on that.

23 MR. MESSINA: Okay. I don't see any cards up
24 in the room. So should we go to the phones and see --
25 anybody on the phone? Good morning.

1 UNIDENTIFIED MALE: (Inaudible). I don't
2 have any additional comments at this time. I just
3 wanted to check in.

4 MR. MESSINA: And any other topic as --

5 UNIDENTIFIED MALE: Or we can go back to
6 hemp --

7 Good morning.

8 MR. MESSINA: So, Andrew, Richard or Iris, any
9 comments on either of yesterday afternoon's topics?

10 MS. FIGUEROA: Good morning. This is Iris.
11 Yeah, I have the same concern on the UAVs about draft
12 or direct spray.

13 MR. MESSINA: I think we're having a hard time
14 hearing you. We're going to try to turn up the volume
15 here in this room.

16 MS. FIGUEROA: Okay.

17 UNIDENTIFIED MALE: Do you want to try now?

18 MR. MESSINA: Yeah.

19 MS. FIGUEROA: Is this better?

20 MR. MESSINA: Little bit.

21 MS. FIGUEROA: Okay. So I have the same
22 concern that Amy mentioned, and Damon, about direct
23 spray or drift on bystanders. And not just the
24 visibility, but also the ability to control and to
25 react in a way that was timely to prevent exposure to

1 bystanders. So I think that's definitely one of the
2 things that the EPA should be focusing on when
3 thinking about this new technology.

4 MR. MESSINAV: Okay. Thank you. Anybody else
5 on the phone?

6 MR. GRAGG: Yes. Richard Gregg. My
7 comments, I think the presentations brought to light a
8 lot of interesting factors, and the comment this
9 morning about the research I think is very relevant
10 because in my opinion we can't assume that we can
11 translate large aerial spraying and then come down to
12 a much smaller scale in the UAVs in that there's just
13 not going to be any issues that we need to be
14 concerned about.

15 And what those issues are, I don't
16 specifically know. But I think -- I just -- I thought
17 what I heard yesterday was some of the comments saying
18 that a lot of the technology is already used in the
19 manned aircraft and therefore just translating it down
20 to a smaller scale, that there wasn't going to be too
21 many issues.

22 And I just don't think we can make that
23 assumption for a lot of reasons that I don't need to
24 go into. So I think also what I heard from the
25 discussions in the comments of who may be involved or

1 EPA is collaborating with, I'm sure all of those
2 things I would expect are going to be accounted for or
3 investigated or the questions raised in terms of what
4 new risk issues may arise, because we're going to such
5 a smaller scale in terms of the deposition of these
6 pesticides.

7 MR. MESSINA: Okay. Thank you. I see in the
8 room Damon has his card raised. We'll go to him next
9 unless there's anyone on the phone who also wanted to
10 chime in.

11 All right. With that, we're going to mute the lines
12 again and have Damon talk.

13 MR. REABE: And I'll make it really brief.

14 (Inaudible due to phone message playing.)

15 MR. REABE: -- and scale. So we think about what
16 it's like when they scale down. But when this
17 regulation matrix and this label language is
18 developed, we have to also think about what happens
19 when it scales up. Because the trend with these
20 vehicles are actually to get larger. And so when the
21 EPA is formulating this, we have to think in both
22 directions. And, again, there's a clear pathway for
23 the EPA to understand that the aerodynamics of each
24 type of vehicle have to be considered when doing a
25 spray drift risk assessment.

1 MR. MESSINA: Okay. We are running out of
2 time. I don't see any cards raised. Any other last
3 comments? And I understand Rick was -- we understand
4 Alex is here and Rick is going to go pop out to see if
5 she's in the hallway. Then we can start with her
6 comments.

7 All right. Well, again, thank you for all of
8 the presenters yesterday here and from afar. I was
9 really happy with those sessions. I think we got a
10 lot of information. It's nice to hear that echoed in
11 this room.

12 We do have a lot to think about on both
13 topics. That's why we thought that'd be great for the
14 agenda because these are, you know, areas where we do
15 need feedback and all of the concerns that have been
16 raised are a lot of the questions we're struggling
17 with right now and really appreciate your help and
18 your comments on that.

19 So, with that, let me close that session, and
20 unless there's anything else -- and then we'll move
21 on to Alex's presentation.

22 (No recording from 46:00 to 1:03:30)

23 MS. BURD: -- request to get the
24 information after class -- to get the information
25 (inaudible) posted to the internet. And there's a lot

1 of information that is not made publicly available.
2 And those Freedom of Information Act requests can
3 languish for many years, leaving us no choice but to
4 sue for the ones that are our highest priority. But
5 many more go unreleased.

6 What is your vision for -- and your plan of
7 action for how to make those requests come through and
8 to get us the documents we need to understand what's
9 going on so we can believe that there is a transparent
10 process where there's nothing to hide.

11 And I have one more question after this.

12 MS. DUNN: Oh, great. No, I appreciate you
13 raising that about FOIA. Actually, we -- I just
14 received earlier this week a bar chart of all the
15 offices and the number of FOIA requests that we have.
16 And I first looked at it and said, oh, I'm so glad
17 we're not on here. And then I realized we were and we
18 had a really long -- a really long bar, which meant
19 that we had the most requests outstanding.

20 And so based on that, I've asked Rick and
21 others, and Ed, who's been working a lot on our data
22 management component, how we can -- I mean, frankly we
23 don't want OCSPP to be the longest bar on the chart.
24 And actually we can quibble with the chart because we
25 are turning around more FOIAs. We have -- our

1 proportion is pretty high in terms of the number that
2 we get. So maybe some strategic conversation about
3 are we getting requests for things typically that we
4 could more regularly make available that people
5 wouldn't have to then FOIA them. So along your lines,
6 increasing the transparency.

7 When it comes to people's emails and things,
8 that's -- you know, a FOIA asking for every email
9 regarding a certain subject, that's -- you're not
10 going to find that on the internet. We have to pull
11 that together. But we -- you know, I came from a
12 region where we got FOIA'ed a lot and, you know, we
13 produced those types of things. It takes a little
14 longer.

15 But I hear you. Timely response is
16 important, and we will continue to work on that.

17 MS. BURD: Thank you. My second
18 question, we learned via FOIA, you know, documents we
19 had to sue to get from Fish & Wildlife Service, not
20 EPA, despite sitting on this committee, we learned
21 that Chlorpyrifos jeopardizes the continued existence
22 of 1,399 endangered species. This is -- this is one
23 of many, many pesticides. We know that the decisions
24 this office makes can mean life or death. These can
25 be extinction events. You know, I think it was a year

1 ago when one member of this committee asked directly
2 which species is this office okay with letting go
3 extinct while it goes through the continual effort or
4 process of refining and refining.

5 Endangered Species Act process was never
6 intended to be perfect. It was intended to rely on
7 the best available science. And yet we're seeing this
8 continuous delay year after year after year. And now
9 we're seeing a BiOp that was almost done, almost ready
10 to go out the door, once again get delayed. And the
11 quest for data that in many instances does not exist,
12 actual use data, it's very frustrating when we're
13 thinking about species actually blinking out and never
14 again being seen on earth.

15 What is this office doing to make sure that
16 it's not causing extinction given that we know
17 Chlorpyrifos jeopardizes the continued existence of
18 1,399 species and is one of many pesticides?

19 MS. DUNN: So I was checking to see if
20 something had been covered already. So Endangered
21 Species Act, boy, when I got this position I -- I
22 asked the question, I said, wow, you know, is it -- is
23 our conflict between, you know, the pesticide program
24 and the ESA as large as it appears. And, you know,
25 the answer was, well, it's even bigger than it

1 appears. Right? This is just a really, really
2 thorny, complicated, litigious area. And we are, as
3 you know, in a number of lawsuits that have been
4 written up that are asking us to commit to, you know,
5 getting some of these complications done over a period
6 of time. And we're working on those.

7 But I'd say that with ESA, we have to think
8 of it as, like, four level chess or five level chess
9 or whatever analogy you want - but we have to work on it
10 on multiple fields. Right? So there will be a
11 litigation field, which would be, like, what does the
12 law say and it's-- it's not always the most
13 flexible forum to sort things out. But, again, as a
14 lawyer I believe in the legal process. But it can be
15 rigid in terms of how the parties have to interact
16 with one another and how solutions come forward.

17 So that's one playing field that we're going
18 to talk about for ESA. Another playing field, I
19 think, is just the day-to-day work that we do on ESA
20 and really raising our capacity and our game as we
21 continue to go forward because every single day we're
22 making choices and decisions around the impact of
23 pesticides on species. And so how do we elevate our
24 day-to-day work. That's another playing field.

25 One that I asked if we had talked about is

1 the fact that I think you all know we worked on the
2 MOU with the services that was, I understand, pretty
3 well received, depending on where you sit. But I
4 haven't, you know, had my ear rung out yet completely
5 on the MOU, which seemed like a good start. You can
6 catch me later and give me that.

7 So -- so we want to continue that process.
8 We have a larger framework that we'll be announcing very
9 soon that we worked with the services on as well as
10 with CEQ, Department of Agriculture. I think that's
11 all the agencies, but multiple federal agencies spent
12 quite some time working on it. And that will be made
13 available for public comment very, very soon.

14 Also, the Farm Bill, as you know,
15 memorialized the MOU and put EPA in charge of a
16 principal level group that will meet regularly and has
17 deliverables and reports. So I -- I know that
18 probably the issue we all think about before we turn
19 our phones off for the night, if we ever do, is, you
20 know, sort of the ESA issues are kind of looming at
21 all times. And we really want to do our best work
22 there. It's -- if it were easy, we wouldn't be where
23 we are. So what I can commit to is that we continue
24 to just keep going at it and keep trying to do better.
25 I mean, we can't stop, basically. Yeah.

1 MR. KEIGWIN: Okay. I think Dan and then
2 Sharon. Okay. So -- yeah. Great.

3 MR. KUNKEL: Thanks, Rick. Thanks, Alex, for
4 your comments. And I just wanted to comment on behalf
5 of the Arrow Four (phonetic) program is a USDA-funded
6 public program that generates data to registered
7 products on specialty crops, minor uses. So we work
8 on a lot of oddball crops, the prickly pear cactus.
9 Hemp is one we're getting a lot of requests on. And
10 so I just really want to say thanks for the support.
11 OPP works with us very closely. We feel like we have
12 a very strong partnership with them and they assist us
13 in adding tools to the toolbox for the growth. So,
14 thank you.

15 MR. KEIGWIN: Okay. I just got an email that
16 the mic wasn't working again. So why don't we just do a
17 quick sound check.

18 UNIDENTIFIED FEMALE: Sure.

19 MR. KEIGWIN: We're going to quickly open up
20 the line and see if people can hear the discussion in
21 the room.

22 UNIDENTIFIED FEMALE: I can hear you loud and
23 clear.

24 MR. KEIGWIN: So people who are on the line,
25 are you able to hear us?

1 UNIDENTIFIED FEMALE: Yes.

2 UNIDENTIFIED MALE: Yes, I can hear now, yes.

3 MR. KEIGWIN: All right, great. Thanks. All
4 right. We're going to mute the line so we don't have
5 interference. So, Sharon?

6 MS. SELVAGGIO: So, you know, I think I was
7 about 11 or 12 years old when the EPA was created.
8 And when I think about it in terms of sort of the
9 America trajectory, you know, it seems to me that as
10 Americans pursue, you know, happiness and freedom, the
11 EPA and a number of the environmental laws that were
12 passed at the time were basically put in place to
13 ensure that, you know, freedom and happiness translate
14 in many cases in this country to capitalism. And so
15 making sure that people (inaudible) faced with this
16 and the health of the people in pursuit of capitalism,
17 freedom and happiness.

18 So, you know, the EPA has a really, really,
19 really important mission and a role in American
20 government and society. And I -- I have to agree with
21 a comment earlier that the trust has been very
22 compromised. And as an example, when we look at the
23 Endangered Species issues, the EPA has had in front of
24 it for 11 years completed biological opinions on
25 Northwest Salmon that have jeopardy calls in them and

1 adverse modification to critical habitat. And for 11
2 years, EPA has not acted on those biological opinions
3 with the exception of one, and has made no formal
4 announcement about, you know, an alternative to any of
5 those or the reasons why it's not implementing those.

6 I don't really know of any other governmental
7 Agency that has flouted the Endangered Species Act in
8 such a way. And it -- it really is scary, quite
9 frankly. And so I just wanted to bring that to your
10 attention because with regard to EPA's role in our
11 society, we have to be able to trust that EPA is going
12 to complete the process that the Endangered Species
13 Act was designed to do and not just to sit on these
14 recommendations forever and ever, or to wait for
15 science to be perfected. It just is never going to be
16 there. At a certain point, EPA has to act. Thank
17 you.

18 MS. DUNN: I don't want to leave you without
19 a response because I've been responding to most of the
20 comments. But I appreciate hearing that. And maybe
21 what I'd like to do is we can get a followup where you
22 can kind of fill me in on these overdue BiOps and
23 where they're standing. And hopefully I'll learn a
24 little bit more about what's going on. So thanks for
25 bringing it to my attention.

1 MR. KEIGWIN: So in the interest of time,
2 maybe we'll take the final two cards that are up. So
3 Jay and then Tim.

4 MR. VROOM: So thank you for being here. You
5 mentioned the legacy of this advisory committee being
6 in the 24-year range. I would have sworn it was
7 longer than that, personally. So thank you for that
8 sort of factual history background.

9 I'm here today representing both a legacy
10 organization that nominated me to be here, which I
11 retired from but I'm still a member representing a lot
12 of those same pesticide registrant interests as a
13 client relationship. I'm also here as a farmer from
14 Illinois. And I would say from every perspective that
15 I think I can represent being here as a member of PPDC
16 that those interests in agriculture have confidence
17 and trust in EPA. Not every decision, every day, but
18 we have access and ability to have an open debate and
19 conversation about those final decision outcomes.

20 We very much appreciate the fact that EPA and
21 OPP interact with other federal agencies and state and
22 tribal agencies as well, and that there's a lot of
23 transparency around all of that. I also think that
24 it's important that transparency be applied fairly and
25 universally around sources of data. And there are a

1 lot of controversies around some of the products that
2 have been mentioned, that you've mentioned here this
3 morning around the data sets and the availability or
4 lack thereof with respect to the fact base that drives
5 ultimately EPA's decision.

6 So I think that there needs to be a level
7 playing field and a level of trust that all of us
8 should acknowledge and represent. And finally I'm
9 really pleased that you've reinforced the importance
10 of communications as a science. That is an important
11 tool for EPA and all of us. And I know that
12 Administrator Wheeler has said that repeatedly. It
13 was one of his three platforms when he was deputy when
14 a number of us had the chance to have dialogue with
15 him. And I know that that commitment continues all
16 the way to the top. So thank you for being here.

17 I also never remember an Assistant
18 Administrator coming to this meeting and taking
19 questions. So thank you for that as well.

20 MS. DUNN: Well, thank you so much. And I
21 appreciate the multiple perspectives around this table
22 from the registrants to the NGO community, to other
23 governmental partners, to, you know, all different
24 state partners. I see -- my vision wears out right
25 past Walter. So I'm determined to never wear glasses.

1 Those of you wearing glasses can convince me
2 otherwise.

3 So, no, I agree that diversity is important.
4 And I've been impressed with our conversations with
5 registrants when we have concerns about impact of
6 particular chemistries on different habitats,
7 different species. I have -- you know, again, I'm new
8 to this field, but I have found the registrants that
9 we've interacted with to be fairly flexible. It's
10 usually not us informing them of something, but
11 something that their own research and science has
12 already kind of directed them towards and frequently
13 they will come in with a proposal to mitigate
14 something themselves that can either shape the scope
15 of what we have to look at in a way that makes it more
16 manageable. So I see -- I see collaboration across
17 the different sectors and I appreciate that.

18 MR. KEIGWIN: And then Tim Tucker.

19 MR. TUCKER: Yes. I'd like to thank you for
20 being here. It's been encouraging to hear your
21 remarks this morning. In regards to increasing
22 communication and transparency, I think that's really
23 critical. And yesterday I mentioned in some of my
24 comments regarding the report from the public health
25 group that their key statement in their report was to

1 build the public's confidence towards EPA's approach
2 by improving communicate quality, quantity and
3 consistency.

4 And I think, you know, your role as a public
5 relations kind of a person, you know, that if you
6 could take that to key. Because when I go back and I
7 explain to people what we try to do here, there's
8 always a skepticism. And as I explained yesterday,
9 the EPA's image isn't always, you know, the best. So
10 I think it's great that, you know, if you can do that
11 and work in those directions, it will be great. And I
12 wish you luck.

13 MS. DUNN: Thank you. And, you know, one of
14 my early meetings, we did get sued on a matter. It
15 was not a pesticide matter. And our lawyers said we're
16 ready to defend this case. You know, EPA has a great
17 record, you know, very clear decision-making up to
18 this point, and we're going to go into court and we
19 feel really good about it. And they said -- and we
20 don't get to say that about every case we have to
21 defend. So it was a good reminder to me about the
22 importance of the steps that we take being well
23 documented, very clear how as an administrative Agency
24 we get to the decision we make. At the end, there may
25 be someone who does not like the decision and we can

1 litigate it. But our lawyers need a very clear path
2 of how the Agency got from A to Z. And when we do
3 that well, we're in -- we're in a good place for --
4 you know, still a debate, but we can defend our
5 process. Our process has to have integrity. So thank
6 you.

7 MR. KEIGWIN: All right. Well, thank you so
8 much for joining us this morning. OK. We are going to
9 transition into biostimulants.

10 MS. DUNN: Oh, biostimulants! Even better!

11 MR. GRAGG: This is Richard Gregg. I didn't
12 get to --

13 MR. KEIGWIN: Oh, I'm sorry. So maybe you
14 can take one more question. Richard Gragg from
15 Florida A&M --

16 MS. DUNN: Oh, okay.

17 MR. KEIGWIN: -- is a PPDC member who's
18 participating remotely.

19 MR. GRAGG: Thank you for your comments. And
20 I just wanted to encourage the open communications and
21 transparency especially around pesticides when it
22 relates to environmental justice and vulnerable
23 populations and health disparities. So, thank you.

24 MS. DUNN: Well, thanks for being on the
25 phone with us from Florida. And I -- I really -- it's
26 interesting, you know, my perspective on environmental

1 justice is -- has evolved in a lot of ways. You know,
2 when I worked with all 50 states, some states really
3 talk about environmental justice; other states talk
4 about community engagement.

5 And I used to say there -- there's some
6 commonalities there. What it is is making sure that
7 there's a very clear way for the public to participate
8 in your decision-making and to make themselves heard.
9 And when I used to teach environmental justice at one
10 of the law schools, I would give students extra credit
11 if they could go to a public meeting. If they went to
12 a public meeting, any public meeting, and this was in
13 Westchester County, New York. And I just said,
14 throughout the whole semester, pick a night whenever
15 you want; look on the county website and find out what
16 committees, (inaudible) committee, whatever committee,
17 get yourself to a public meeting.

18 And the students that did it, nine out of 10
19 would come in and say I couldn't find it. One said I
20 got there and got, like, you know, the hairy eyeball
21 like what are you doing here; nobody ever comes to
22 these meetings, you know? Unclear information about
23 how to participate, not even a chair in the room for
24 anyone to observe.

25 I mean, there was just -- and it was really to

1 get them to realize that we say we have this process of
2 government where everybody is welcome to participate,
3 but when you really try to do it, it can be
4 unbelievably difficult. And this was for law students
5 who were at the graduate degree level. I said, now
6 imagine you didn't finish high school and you want to
7 participate in a public hearing and you have child care
8 issues or you don't have the internet. How are you --
9 how are you going to participate in government?

10 And so that's how I look at the EJ issues, is
11 it about making sure there's an equitable and fair way
12 for people to participate. So thank you for raising
13 that and for being on the phone. You probably have a
14 better view than us.

15 MR. GRAGG: No. Well, thank you again. And I
16 look forward to talking with you more about it. Thank
17 you.

18 MR. KEIGWIN: Thanks again, Alex. So I'd now
19 like to invite Bob McNally, the Director of the
20 Biopesticides and Pollution Prevention Division, and
21 Russ Jones.

22 MR. MCNALLY: Yeah. Thanks, Rick. So let me
23 start out first and just ask folks here, how many
24 people don't know much at all about plant
25 biostimulants? You don't really know much about the

1 term, just show of hands.

2 Okay, that's good. And how many feel you have
3 a pretty good understanding?

4 All right, great. You know, for myself, when
5 I started in this program five or six years ago, I had
6 never heard this term. So this is really an evolving
7 area. You think about pesticides, you think about
8 fertilizers, and now there's this new field called
9 plant biostimulants.

10 So as Alex alluded to, we put out guidance
11 several months ago on this that we're looking for
12 comment. This guidance is just articulating what our
13 views on this subject have been. And I'll get to that
14 in a second over the last five or six years since we've
15 been getting questions.

16 That comment period will run through July
17 27th. We've extended it to give people more time to
18 comment. And since we're in a comment period, our main
19 goal today is really to listen to comments that you
20 have and then try to clarify any questions you have
21 about what we mean by certain things. So that's what
22 we're going to attempt to do.

23 Now, before I turn it over to Russ Jones,
24 who's our technical expert, there's sort of five things
25 that I want to cover. First of all, in this briefing,

1 we're going to cover what they are, biostimulants, and
2 why they're important.

3 The second point we're going to cover and
4 focus on is, well, what the heck is their connection to
5 FIFRA and pesticides? And that's really critical.

6 Third, we're going to try to touch on the
7 perspectives of states that have an interest in this
8 area, as well as industries who have an interest in this
9 area.

10 Fourth, as Alex alluded to, we want to
11 describe a little bit about USDA's role in this area
12 and a report to Congress that under the enacted Farm
13 Bill in 2018, USDA has to provide back to Congress by
14 around Christmastime.

15 And then lastly I want to sort of cover a
16 little bit about what our next steps are in the process
17 moving forward. So, with that, let me turn it over to
18 Russ, who's going to walk through some slides that we
19 normally present to groups like this to give you an
20 overview of those areas that I've just touched on. So,
21 Russ?

22 MR. JONES: Good morning. My name is Russ
23 Jones, and I'll be giving an update on our -- does it
24 work? No?

25 MR. KEIGWIN: Maybe it's not charged. Did we

1 leave it on overnight?

2 MR. JONES: Or I can project. Can everybody
3 hear me?

4 MR. KEIGWIN: Not on the phone. Maybe -- Do you want
5 to sit down here?

6 MR. JONES: Okay. Can you hear me now? Okay.
7 No?

8 UNIDENTIFIED FEMALE: I'm going to get a new
9 microphone.

10 MR. KEIGWIN: We maybe left it on last night.
11 (Brief pause.)

12 MR. JONES: Okay. Can you hear me now? No?
13 Hello?

14 MR. KEIGWIN: Maybe he can get it to work.

15 MR. JONES: Hello, can you hear me? There we
16 go. I need to yell sort of like a rock star here.
17 Okay. I'll get real close. So everybody knows who I
18 am now. Let's get this working. Okay. There we go.
19 Okay. So I'll give a brief overview of what
20 EPA's understanding of what a plant biostimulant is.
21 And basically it's a fairly new -- well, not so new in
22 -- ouch.

23 MR. KEIGWIN: Oh, hang on.

24 MR. JONES: It's a relatively new and growing
25 category of agricultural products. It's comprised of

1 either naturally occurring plant growth substances or
2 microbes, or a mixture of the two. Their intended use
3 is to stimulant plant growth by several different
4 means, primarily by improved nutrient water use
5 efficiency, protection from abiotic stress, whether
6 that be salt stress, cold stress, heat stress, water
7 stress, what have you, and it could include the
8 stimulation by plant regulator -- I think plant
9 hormones and associated plant hormone-like substances.
10 That's what we consider a plant regulator -- at least in
11 the biopesticides area.

12 They are not considered to be fertilizers or
13 provide any nutritional capacity to the plant, but they
14 are -- they do stimulate nutrient use efficiency, and
15 they're not used for pest control purposes. Because
16 they can provide enhanced nutrient use efficiency
17 capacities, you can apply these products with plant
18 fertilizers to help with the uptake of those substances
19 and thereby reduce the burden of agricultural chemicals
20 in the environment. They're also attractive for
21 sustainable ag programs and IPM programs.

22 Now, the biostimulants market, take these
23 numbers with a grain of salt. These numbers here
24 change. However, I will indicate that every time I
25 update this slide, the numbers do get bigger. So the

1 latest thing I've looked at, the global market may be
2 roughly \$4.5 billion projected by 2025. This number
3 is likely to increase. North American market might be
4 expected to reach close to a billion dollars by 2022.
5 North American market is the second largest behind
6 Europe, worldwide.

7 I guess the question then is -- to be asked is
8 why does EPA concern itself with plant regulators and
9 why do we regulate plant regulators, including those
10 things that are considered biostimulants? It has to do
11 with FIFRA and the way the definition of what a
12 pesticide is. The FIFRA definition of a pesticide
13 includes plant regulators. So that's -- our authority
14 under FIFRA regulates plant regulators as pesticides.

15 We don't regulate plant biostimulants, per se,
16 because reason being is there is no definition in
17 FIFRA of a plant biostimulant. So we look at
18 those products that may -- those plant biostimulant
19 products that may or may not fit within the definition
20 of a plant regulator.

21 So let's look at the definition of a plant
22 regulator in FIFRA. This is really instructive as
23 to why we look at these things. It's any substance or
24 mixture of substances intended through physiological
25 action that either accelerates or retards the rate of

1 plant growth; accelerates or retards the rate of
2 maturation, or otherwise alters the behavior of plants
3 or the produce thereof.

4 Now, we interpret the behavior of plants as
5 the growth habit. Is it a viney plant? Is it a short,
6 stout plant; leafy, nonleafy? And if you apply a substance
7 to the plant so that it grows in a manner in which it
8 does not normally grow, then that would be a change in
9 the behavior of the plant.

10 Now, it is understood that just about anything
11 you can apply to a plant -- water, for instance -- will
12 change the physiology of a plant and make it grow in a
13 different way. So in order to not be seen as
14 regulating everything under the sun, there are a number
15 of exclusions from the plant regulator definition.

16 So if it's excluded from the plant regulator
17 definition, it's excluded from regulation under FIFRA.
18 So the following exclusions are found under FIFRA.
19 There are plant nutrients and trace elements. And
20 those are defined in the code as those macro-nutrients
21 and micro-nutrient trace elements that are -- that
22 support the normal growth of a plant and are there
23 in a readily useable form.

24 There's this other exclusion from FIFRA known
25 as nutritional chemicals. Oddly enough, the name is

1 listed there in FIFRA, but nowhere in FIFRA or in the
2 Code of Federal Regulations is the term "nutritional
3 chemicals" defined. So we really don't have an opinion
4 on that at this moment. So it's there. We don't
5 really have a definition on it. So we just move on.

6 Now, we do have plant inoculants. That's
7 another exclusion from FIFRA. Plant inoculants are
8 micro-organisms that are applied to the plant or to the
9 soil that increase the -- or increase the availability
10 of -- or stimulate the plants to more readily take
11 nutrients up from the soil. So that's kind of a
12 nutrient use efficiency thing.

13 We have soil amendments. Those are -- could
14 be substances or micro-organisms that are applied to
15 the soil that change the characteristics of the soil.
16 So it makes it a better medium for plant growth.

17 And then we have this kind of interesting
18 category called vitamin hormone products. Now, vitamin
19 hormone products basically can include all those four
20 bullets above it, any mixture thereof, including plant
21 hormones. The caveat here is that vitamin hormone
22 products need to be of minimal toxicity, usually in a
23 Tox III or Tox IV category, and they are not to be used
24 on food crop sites. So they can be used in ornamentals,
25 turf, non-bearing trees, things of that nature, but

1 they cannot be used on food crop sites. But if you're
2 within that vitamin hormone definition, you can freely
3 make plant regulator claims without being subject to
4 regulation under FIFRA.

5 So what is the purpose of our proposed
6 guidance? It should be understood here that the
7 guidance is not being more restrictive in terms of
8 regulations, not intended to be more restrictive. It's
9 not intended to be less restrictive. It's really a
10 clarification and basically putting down on paper what
11 we are already doing in terms of the regulation of
12 plant regulators and provide clarity to the regulated
13 community as to what we're doing. It's a legally non-
14 binding document. And the document also provides
15 examples of claims. Plant regulator claims that may be
16 found on product labels and also identifies examples of
17 non-plant regulator claims that we would consider not
18 triggering FIFRA.

19 And it should be understood here these are
20 examples. It does not cover the waterfront. There
21 could be other claims that we have not covered or
22 listed in the guidance.

23 So we go on to our definitions. Remember, as a
24 regulatory Agency, we regulate on what's defined either
25 in FIFRA or in the Code of Federal Regulations. Plant

1 biostimulants themselves are not defined in FIFRA. So
2 as I said before, we don't regulate plant
3 biostimulants. We regulate the plant regulators.

4 There is a definition in the recently enacted
5 2018 Farm Bill, as well as a proposed definition in the
6 European Commission, who have been working on an update
7 of their own fertilizer law since roughly the year, oh,
8 2012, I think, 2013?

9 So let's look at the definitions that are in
10 the Farm Bill. And that is "a substance or micro-
11 organism that, when applied to seeds, plants or the
12 rhizosphere, stimulates natural processes to enhance or
13 benefit nutrient uptake, nutrient efficiency, tolerance
14 to abiotic stress, or crop quality and yield." Almost
15 sounds like what our understanding of a plant
16 biostimulant is.

17 There's a similar definition, again, in that
18 European Commission Fertilizer Law Update. Their
19 definition is very similar to the Farm Bill definition.
20 It's "a product stimulating plant nutrition processes
21 independently of a product's nutrient content with the
22 sole aim of improving one or more of the following
23 characteristics of the plant: nutrient use efficiency;
24 tolerance to abiotic stress; and crop quality traits."

25 So note that in neither definition are they

1 really considering this to be a traditional fertilizer
2 product, but that it's something that will stimulate
3 nutrient use efficiency by the plants when these
4 products are applied to plants or to the soil.

5 In terms of the expected benefits and costs
6 after we finalize the guidance, this was a little bit
7 of a harder nut to crack. We did our -- tried to do an
8 economic analysis and we found it was really difficult
9 to quantify cost savings or costs one way or the other.
10 But it is noted that by eliminating ambiguity and
11 providing a little more regulatory clarity, there will
12 be savings in terms of having a more definitive pathway
13 towards registration or determining which products are
14 not going to require registration. And that saves both
15 the regulated community as well as the state regulators
16 and federal regulators.

17 So some perspectives we have obtained from the
18 industry, as we've been interacting with the industry
19 since the year -- again, since maybe 2012, 2013.
20 Industry does seek clarification and guidance on the
21 products that may or may not be subject to regulation
22 under FIFRA. And there are some companies and
23 individual groups out there that are seeking regulation
24 under FIFRA. They do want to register a plant
25 regulator product and get that EPA registration for

1 their biostimulant product.

2 There is -- as I said, not all biostimulant
3 products would necessarily be considered plant
4 regulators. And some of the industry groups do seek to
5 create sort of a third-party certification process for
6 these non-government regulated products. And they want
7 -- it's called kind of this U.S. plant biostimulant
8 verification program that's being kicked around between
9 basically USDA and the industry groups, and it's more
10 or less to create a certification process for these
11 products basically to assure that they do what they're
12 supposed -- or do what they're intended to do or what
13 they claim to do; they have the components in there
14 that they say is on the label and what have you.

15 So it would be a certification process that's
16 acceptable across all states. It would establish
17 standards and criteria for this certification process
18 and also create a registry of these products once they
19 have been certified.

20 Now, EPA's role in this will be technical and
21 advisory only. There's not going to be any sort of
22 regulation by EPA on this third-party process. And
23 USDA will be taking the lead for this with EPA in an
24 advisory role.

25 Also, I do put that bullet down at the bottom.

1 Of course, there's a smaller group of people who don't
2 want any regulation at all, whether it be by the state,
3 the feds, or any private organization.

4 As far as the U.S. states are concerned, of
5 course as we've been -- as I've been stating all
6 throughout this presentation, everybody would like
7 regulatory clarity. So not only at the federal level,
8 but also at the state level. The state's really --
9 when these products come into the states for their
10 registration purposes at their level, the first thing
11 they ask is does this product require registration
12 under FIFRA? Is it a plant regulator or is it not a
13 plant regulator? So we have those conversations quite
14 often.

15 So, again, one of the purposes of the guidance
16 here is to help the states understand what we would or
17 would not regulate.

18 As far as USDA and EPA collaborating, we are
19 under the Farm Bill, Section 9201. There's supposed to
20 be a report on the regulation of plant biostimulants.
21 That was supposed to be -- that is supposed to be
22 completed within one year of the enactment of the Farm
23 Bill. And the text that is in the Farm Bill basically
24 says the report is supposed to "identify potential
25 regulatory and legislative reforms to ensure

1 expeditious and appropriate review, approval, uniform
2 national labeling, and availability of plant
3 biostimulant products to agricultural producers.”

4 Again, USDA will be taking the lead in
5 drafting this report. They will do it in consultation
6 with EPA, states, industry and any other stakeholders.
7 This may or may not include that Plant Biostimulant
8 Product Verification program I just spoke about in the
9 previous slide. I think that’s just -- that will be
10 something to be determined. But, again, USDA will be
11 taking the lead; EPA will be in more of a technical and
12 advisory role.

13 Internationally, as I alluded to before, the
14 European Union has drafted a definition and a -- they
15 actually have a regulatory framework for plant
16 biostimulants. They will be regulating these things
17 under their proposed fertilizer regulation update.
18 It’s undergoing technical modifications now. I think
19 it’s getting close to completion here in 2019. I think
20 it’s -- the last slide or information I saw from that,
21 I believe they’re hoping to have this completion soon,
22 maybe June of 2019.

23 If you go onto the European Commission
24 website, it’s a bit opaque in terms of the information
25 they’re relating to us. But as near as I can tell,

1 they want to have this completed by 2019. I believe
2 there's elections coming up. So they're trying to get
3 this done before the European Commission elections are
4 completed.

5 Proposed implementation of this fertilizer
6 update law will be in 2021.

7 Outside of the United States and Europe, it's
8 really kind of a mixed bag as to how plant
9 biostimulants are handled. There's -- depending on
10 which country you're in, it's either unregulated, it's
11 regulated under existing fertilizer regulations, or
12 it's regulated under existing plant protection or
13 pesticide regulations.

14 I'm not going to go through this slide line by
15 line. But it's basically a listing of our stakeholder
16 involvement since 2012. In 2012, I actually received a
17 copy of this publication called the "Science of Plant
18 Biostimulants." It was written by Professor Patrick Du
19 Jardin. And he basically created this -- crafted this
20 paper as a -- kind of for the European Commission. It
21 was basically to support the role of plant
22 biostimulants within their fertilizer law update. And
23 I was one of the peer reviewers on the paper.

24 And basically in 2012, I provided my comments,
25 sent them back and everything was off the radar screen

1 at that point. Long about 2014, 2015, we are now
2 starting to make our initial contacts with the European
3 Biostimulants Industry Council. This was technical
4 meetings that we attended when we were giving
5 presentations specifically on plant regulators. We
6 also met with the USBC and the BPIA at that time.

7 And when I came back from these meetings,
8 that's when I brought back the information. EPA, I
9 think this is -- we need to start addressing plant
10 biostimulants because these products are going to start
11 coming in the door and we need to start developing some
12 sort of way to see how they fit within our existing
13 regulatory scheme.

14 So that is really where the genesis of the
15 plant biostimulant or the plant regulator guidance
16 started. So going now down to 2019, right now our
17 guidance was posted for public comment on March 25th
18 and we have now -- originally we had a comment deadline
19 of June 27th. And as I understand it, as Bob just
20 said, it has been extended up to the end of July.

21 So there are our next steps. We've already
22 completed our final Agency review, our OMB review. As
23 I just indicated, we're in the public comment period
24 and June is now not correct. It is July. We're going
25 to develop our response to the comments during this

1 summer, 2019. And our hope is that we can publish the
2 final guidance sometime either in the winter or spring
3 of 2020.

4 MR. KEIGWIN: All right. Thanks, Russ.

5 Again, if you want to comment on this officially, you
6 know, take a look at the document. We've kind of
7 covered it just sort of superficially here. Basically
8 it describes the categories that Russ has talked about.
9 It gives examples of claims that would be relevant
10 under FIFRA and claims that wouldn't be things you'd
11 have to come in and get registered.

12 It also includes a list of previous things
13 we've registered as plant growth regulators under the
14 statute. States and actually EPA regions have found
15 that information helpful because, again, as Russ
16 highlighted, one of the goals is to help people in the
17 real world sort of deal with these issues as they come
18 up. Is something a fertilizer? Is something a
19 pesticide? And where do these newfangled products
20 known as plant biostimulants fit.

21 So, with that, let's open up any questions you
22 might have about the guidance. And certainly if you
23 want to make any comments, feel free to make them this
24 morning. But also please remember to file them
25 officially so that we can consider them in the official

1 record.

2 Nina?

3 MS. WILSON: Thanks, Russ and Bob. Good
4 explanations. Every time -- it is a complicated -- it
5 doesn't seem like it should be a complicated thing to
6 try to understand what the different things are. And
7 so I'm going to try to paraphrase, probably badly, but
8 that was a lot of good information. There's a lot of
9 different products that probably a lot of people aren't
10 really familiar with on a day-to-day process.

11 But I really think a biostimulant is something
12 like -- something that you would give your kids because
13 you know it's going to help them grow well; it's going
14 to help them digest something. I don't know, something
15 -- some booster in their milk or something, whereas a
16 steroid is something that is going to make them do
17 something or build muscles that they normally wouldn't
18 do under sort of normal conditions. So I don't know
19 if that helps, but that's kind of where my mind thinks
20 about the difference between what a biostimulant is and
21 what a PGR - a PGR is going to do something that
22 normally a plant wouldn't do under normal conditions.
23 And so that is why it's regulated. Does that sound
24 strange?

25 MR. JONES: No. It doesn't sound strange at

1 all. But I think it should be understood that there's
2 a vast universe --

3 MS. WILSON: Yes.

4 MR. JONES: -- of plant biostimulants. Many
5 biostimulants will be, as you said, they will fall
6 outside what we would define as a plant regulator under
7 FIFRA.

8 Other products, however, will have components
9 in them --

10 MS. WILSON: Right.

11 MR. JONES: -- that are biostimulants. They may
12 also be a mixture of components that are non-plant
13 regulator in nature but also plant regulator in nature.
14 So if I have these plant regulator components in them
15 and they're making claims that would fit within that
16 FIFRA plant regulator definition, then they would
17 trigger regulation under FIFRA.

18 MS. WILSON: Right. So for decades and
19 decades there are things now that we have come to
20 understand are biostimulants that have been used in the
21 industry forever and not been FIFRA regulated. And
22 they may or may not have some level of components that
23 might lend them to -- for people to think that they
24 could be steroids, if you will, or they could be PGRs.

25 So -- and I just want to say really quickly, I
26 really -- the industry really appreciates the brave

1 effort that EPA made in trying to define this because
2 it is such a difficult thing. And, you know, we end up
3 talking circles -- even when the industry was talking about it,
4 we were just going round and around many times trying
5 to get our hands around what actually we were trying to
6 do and ask the Agency for clarification, because
7 clarification is needed. You know, the states are --
8 you know, they have to deal with enforcement. And it's
9 like I want to enforce this but I'm not sure what it
10 is. And we're having issues at the port because when
11 something comes into the port -- and these microbials
12 have very short shelf life -- somebody looks at this at
13 the port, you know, who doesn't understand FIFRA or
14 biopesticides or been, you know, exposed to some of
15 this explanation, and they're like, "I don't know, this
16 looks like a pesticide," you know; where's the
17 notification, you know? And so they ask and, you know,
18 by the time you get your stuff out of port, it's dead.
19 And so it really is -- it is really not good for
20 commerce.

21 So there -- we really appreciate how you went
22 through and talked about each table and made -- for all
23 the different kinds of biostimulants and PGRs, you made
24 comments on these are the appropriate claims. And I
25 think that's really helpful and we really did think
26 that having a claims-based document that explained

1 that, people wanted to see that in black and white.
2 Right? It makes it -- it makes it more real to them.
3 "Yes, my product does this; oh, yeah, okay, it's -- I
4 guess it's a PGR, or it did this, so I guess it's not."
5 And so that's very helpful.

6 But, however, table four, the infamous table
7 four, I think looking at it somewhat out of context is
8 confusing. And I -- again, my analogy here is that we
9 have products that are at EPA and approved as inerts,
10 and we also have products -- the same products that are
11 approved as active ingredients. And the difference
12 often is what the -- you know, they're the same thing,
13 you know, but the composition is a little bit
14 different; enough to make one an inert and enough to
15 make one active ingredient, and then also the claims
16 and how you use those things. So that's, to me, sort
17 of an analogy of how I think about some of those
18 products that are on List 4 that have been used
19 without FIFRA registrations often for a long time.

20 And so we really would -- to parse out all of
21 this -- and there are a lot of stakeholders besides the
22 states and there's, you know, many industries and many
23 people and hundreds of companies that are doing a lot
24 of research. And they're doing a lot of research
25 because we're seeing results. We're seeing results,

1 you know, where we're getting better plant health;
2 everybody is understanding more about the microbiome,
3 you know, not only within ourselves but within a plant
4 has its own microbiome. So there's some very exciting
5 stuff coming down the pike.

6 And we believe maybe that Table 4, if it's
7 taken out of this document and we think about Table 4
8 as being a product that it depends on the
9 composition of your particular product and the claims
10 that you're making on your particular product then we
11 can't really paint it with sort of a broad brush and
12 make a table that says, you know, these are plant
13 growth regulators because of the potential for dual
14 use.

15 So -- and, of course, we want to be able to
16 discuss that with you. And as far as the timing on the
17 published guidance, you -- Russ, you alluded to the
18 fact that the USDA is also working with industry to
19 clarify what they believe is the guidance around
20 biostimulants. Not PGRs, but biostimulants. And that
21 comment is due to Congress in December. But the
22 industry is working with USDA to develop a framework
23 and get it on paper, you know, sometime around
24 July/August.

25 So it would be really great to have the

1 guidance. You know, obviously you guys are working
2 with USDA as well. But we believe that those should be
3 aligned. And so having the comment period extended to,
4 you know, July, would be very helpful because I think
5 those documents can come together and then USDA and EPA
6 can, you know, work cross functionally, which is what
7 the industry would like. And, also, you know, make
8 sure that the states and the people that -- the other
9 stakeholders are aware.

10 MR. MCNALLY: Yeah. Thanks, Nina. Just a
11 couple points of clarification for everyone else. So
12 Table 4 was not in the presentation this morning.

13 But if you look at the guidance I think I alluded to,
14 that's where we list previous things that we registered
15 as plant growth regulators over the past 20 years. So
16 that's sort of a summation of all the ones that we have
17 registered since the program's inception.

18 One other point I want to make to bring other
19 folks into the discussion is I think industry is
20 probably a better group to talk to than us. But I
21 think there is some evidence that may suggest that if
22 these plant biostimulants are used, a farmer may
23 ultimately use less fertilizers, less pesticides. And
24 so in theory I think there could be some benefit sort
25 of more globally than just to the farmer.

1 MR. KEIGWIN: Okay. Tim?

2 TIM: Thank you. I was just wondering if you
3 might have a few examples of what these naturally
4 occurring compounds are and if they are occurring in
5 their own species; if they're species specific, you
6 know, much like the IGRs are, and then enhanced
7 synthetically or how these naturally occurring
8 compounds are going to be derived and put on the
9 market.

10 MR. JONES: Okay. Essentially many of the
11 naturally occurring compounds are found in plants.
12 They're produced by plants themselves. And that would
13 include your typical plant hormones. If you remember
14 your plant physiology, Bio 101 class way back when,
15 things like auxin, cytokine and gibberellins, they're
16 not species specific. They're found in almost all
17 green and growing plants.

18 Many of these things are produced by
19 microorganisms. They have a different function in a
20 microorganism than they would in a plant. But the fact
21 of the matter is they are molecules that are identical
22 to those found in plants and have activity the same as
23 the molecules that the plants themselves produced.

24 But I don't know how many people have the
25 guidance in front of them and have Table 4, but

1 these are, again, all substances that are produced by
2 biological organisms. And I have activity -- plant
3 regulator activity as defined in the plant regulator
4 definition under FIFRA section 2V.

5 MR. McNALLY: Does that help?

6 TIM: Well, I'm not seeing Table 4. Where
7 do we get that?

8 MR. KEIGWIN: So what we can do is we can send
9 around a link to the guidance that's out for public
10 comment to everyone on the PPDC just so that you have
11 it.

12 MR. McNALLY: And after the break, we can show
13 you the table here if you want to take a look. Jay?

14 MR. VROOM: Yeah, thanks. So I think Table 4
15 has caused some states to be confused and actually
16 issue stop sale on some products for this market year.
17 That probably wasn't the intent of EPA. And so it's an
18 example of how all of us need to be careful around some
19 of these communications and proposals.

20 I agree with Nina. I think that more time for
21 the comment period, if you could push it another month
22 into the late July time frame, would allow for
23 industry, EPA and USDA to have greater opportunity for
24 convergence. And we know you're considering that.

25 And then lastly I think the Farm Bill as

1 enacted is pretty clear with regard to the next steps
2 delegating authority to USDA, but with full recognition
3 I think from the regulated community that this is not
4 the first time that there have been questions about
5 what box does a substance fall into with regard to OPP
6 jurisdiction and regulation, and -- but it is probably
7 the first time where there's been so much potential
8 overlap with not only the regulatory authority that may
9 evolve or not at USDA, but certainly has been
10 repository at the state level with regard to fertilizer
11 nutrient registration.

12 So thanks for the care that you've brought to
13 this so far. A lot more miles to go. But we
14 appreciate, again, the opportunity for access and
15 transparency.

16 MR. KEIGWIN: Liza?

17 MS. TROSSBACH: Thank you. Just to follow up
18 on the comment regarding pesticide regulatory
19 officials, I think one of the main concerns are the
20 claims that the products are making. There's a very
21 specific definition for pesticide, substance or mixture
22 of substances that will do any of this list of actions.

23 And many of these products the states are
24 finding have claims that seem to at least infer that
25 they are -- there's a pesticidal quality to that

1 particular product. And so I would just offer that the
2 claims portion of the guidance -- and I have not -- I
3 looked at that in great detail, really is important and
4 it really is important for, you know, the industry to,
5 you know, to follow.

6 The other thing is that states also have, in
7 addition to Federal law that they follow, there are
8 state laws as well. And so it is possible that you
9 will have something that in one state will not be
10 considered a pesticide but another state may interpret
11 it as a pesticide. And states are allowed to be more
12 stringent than the federal requirements. And so I
13 would just offer that.

14 The other thing is I think the list of
15 compounds, some of which, you know, can be -- I think
16 the comment was made it could be inert, it could be an
17 active ingredient -- some of those materials do have
18 pesticidal qualities by their very nature. So when
19 they're put into a product, whether there is a claim
20 that it's causing a pesticidal action or not, there is
21 some concern that is it, in fact, a pesticide? It
22 is being marketed outside of the regulatory process,
23 there are many state agencies that go to consumer
24 protection issues, level playing fields and those types
25 of things.

1 So there's a lot of things that state lead
2 agencies and pesticide regulatory officials look at and
3 that I think need to be, you know, worked out. I think
4 that the workgroup and the guidance is great. I hope
5 that as we go forward that state pesticide
6 regulatory officials are more heavily involved in that
7 because we have a very important stake, you know, in
8 this process, as well, and in ensuring the products
9 that are supposed to be out there that are tools are
10 certainly out there, but that, again, we are protecting
11 the consumer and we are ensuring that things that are,
12 in fact, pesticides are being utilized as pesticides.

13 For example, if you have something that says
14 it enhances growth, but really what you're saying is it
15 enhances growth by a pesticidal action, then you're a
16 pesticide. And that's how, you know, we currently look
17 at that. And so I appreciate this discussion.

18 MR. KEIGWIN: Can we check on the phone for
19 Andrew, Richard or Iris, if they have any questions or
20 comments?

21 MR. GRAGG: I have a couple questions.

22 MR. KEIGWIN: Richard, go ahead.

23 MR. GRAGG: Yes, thank you. One, are these
24 biostimulants -- can they be applied through the UAVs?
25 And, two, are there any known human health effects of

1 biostimulants? And, three, can they be applied in
2 conjunction with traditional pesticides, either
3 together or from a mixture?

4 MR. MCNALLY: So this is Bob. Thank you for
5 those questions. Let's try to take them one at a time.
6 I think the first question, how might they be applied.
7 And the industry can chime in as well. But my sense is
8 they could, in fact, be applied to a variety of means.
9 Is that correct, Russ? So, yes, to answer the first
10 question.

11 Let me cover the third and then come back to
12 the second. I think the question is could they be
13 applied as a mixture. To the best of my knowledge,
14 that can be allowed. But as I think Liza mentioned, if
15 there are -- and let's say they're not pesticides, but
16 if they're pesticides that are being applied, those
17 pesticides have to comply with the label.

18 And can you repeat your second question again,
19 please? I missed that.

20 MR. GRAGG: Are there any known human health
21 impacts or effects of biostimulants?

22 MR. MCNALLY: This is Bob. I think when we
23 register a pesticide that is a plant growth regulator,
24 as Russ can attest to, we go through a full litany of
25 different studies and data requirements that have to be

1 met and then we make -- as Alex said earlier, sort of a
2 safety determination.

3 So when something is a plant growth regulator
4 and it meets those criteria, we do a full, you know,
5 human health and ecological risk assessment. I can't
6 speak to, you know, whether biostimulants that don't
7 meet that standard have any issues associated with
8 them. I may be able to ask the folks from the industry
9 who are more familiar with that. In fact, they may be
10 looking for some sort of certification program to take
11 a look at that so that the public is assured that the
12 product is safe and efficacious perhaps through a
13 private sector verification program or perhaps if USDA
14 does something.

15 Nina?

16 MS. WILSON: Yes, indeed. And I think you'll
17 hear some public comments about that maybe later on.
18 But that is one of -- one of the things that you
19 pointed out is that, yes, maybe because the line is not
20 black and white and you're on one side, and certainly
21 characterization of your product needs to be done for
22 you to determine really what side of the line that
23 you're on, and one of the things that the industry is
24 doing is trying to certify, you know, and do global
25 certifications through third-party certifiers to make

1 sure that the composition is what it says; to make sure
2 that the products do what they say they do.

3 Does that help? It's probably going to take a
4 while.

5 MR. GRAGG: Yeah, a little bit. Thank you.

6 MR. KEIGWIN: Okay. Liza?

7 MS. TROSSBACH: Two final comments/questions.
8 Some of the products that are being seen by states
9 contain microbes. And I think microbes were mentioned
10 before. And so I think the question is, has or will EPA
11 be addressing microbes in this whole discussion of
12 biostimulants, and kind of how you see that going.

13 And then the second thing is can you provide
14 additional information about the third-party
15 certification process? Who -- who is going to
16 clarify or who's going to establish the criteria for
17 that third-party certification? You know, what is that
18 going to look like? You know, so we can be aware that
19 obviously states that are forced to regulate industry,
20 you know, what does that mean exactly? You know, where
21 is that information going to be available? You know,
22 how are we able to confirm that? Thank you.

23 MR. JONES: In terms of the first question
24 about the microbes, even though -- except for maybe in
25 certain spots it wasn't specifically said that these

1 were microbes, microbes are included in this. In fact,
2 I remember having a conversation with our Office of
3 General Counsel and the -- in the FIFRA definition
4 where it says "substance or mixture of substances," I
5 was informed that that included microbes. So I hope
6 that helps.

7 So, yeah, just because you don't see the word
8 "microbe" maybe throughout the document does not mean
9 they were specifically precluded from the guidance.
10 They are included in the guidance.

11 MR. MCNALLY: So, Liza, on your other point,
12 so what EPA -- just to kind of summarize, our job is if
13 it's a plant growth regulator, you come to us. And the
14 guidance intent is to clarify when you have to come to
15 us and when you don't.

16 Now, when you don't raises the point you made
17 about a third-party certification program. That is a
18 work in progress. I think the states are part of that
19 effort. USDA has been very inclusive. And that will
20 be part of the report to Congress.

21 So if you don't meet the criteria to come to
22 us -- and, believe me, Rick and Ed can attest, we have
23 enough work, we're not looking for more stuff to come
24 other than what's covered under the statute. So if
25 you're not covered by us, I think the point of that

1 report to Congress is to lay out the possibilities for
2 what a certification program might be that might be
3 done under the auspices of USDA; might be done through
4 a third-party private sector group. That's sort of
5 left to be decided or written.

6 MR. GRAGG: This is Richard. I have one other
7 question if I may.

8 MR. KEIGWIN: Okay, Richard. Why don't you
9 go, and then I think we'll close up this session with
10 one last comment from Nina.

11 MR. GRAGG: So my question is how long do
12 these products live or survive in the environment? I
13 mean, do they -- do we need to be concerned about them
14 moving into the aquatic system runoff from crop lands
15 into the aquatic system? You know, how -- how long can
16 their effects last in these other environments or are
17 they just a short -- very short half-life?

18 MR. JONES: Okay. Well, first I can speak
19 to the naturally occurring plant hormones. They're
20 fairly labile in the environment. They're not really
21 long lasting. They're already in the environment as a
22 matter of fact. I mean, they're naturally produced by
23 plants. They're there. The ones that are applied
24 exogenously to plants, at least as plant regulators,
25 are very short-lived in the environment. But we're not

1 -- we're not putting anything into the environment that
2 isn't already there.

3 As far as microbes, again, these microbes are
4 those that are present in the environment. We're not
5 talking about GMOs. We're talking about isolates and
6 strains that are already there that have specific
7 effects and are identified to have specific effects. Being
8 a microbe, of course, microbes live and grow and
9 reproduce in the environment. So it would be a little
10 bit tough to give you an idea of what a specific half-
11 life would be on a microbe.

12 MR. GRAGG: Okay. But your -- but your -- I
13 would have to take issue with your statement that --
14 well, at least the way it's coming across to me, that
15 because they're already there then that's not an issue.
16 These are products that are being extracted from their
17 natural environment and then we are putting them or
18 placing them in other situations. And as far as the
19 microbes, microbes grow in communities, in mixtures.
20 So when we isolate a certain one that may be natural
21 and we compound that or grow it up and put it somewhere
22 else, that doesn't mean it's not going to have any
23 negative impacts.

24 MR. JONES: Okay. I can only address those
25 things that we have looked at as either biochemical

1 pesticides or microbial pesticides, especially those
2 that are used as plant regulators. And we have already
3 gone through a series of safety assessments for those
4 substances before they were registered.

5 As for those substances that are outside the
6 FIFRA arena, I would have just to defer to the industry
7 themselves on the use of those products. Again, I can
8 only attest to the safety of the ones we've looked at,
9 reviewed and assessed for human health and the non-
10 target effects. And, again, we've assessed those
11 fairly well for safety.

12 MR. GRAGG: But do those non-target effects
13 include the microbial communities in the soil where the
14 crops are already growing? Are you looking at non-
15 target effects on the existing microbiomes?

16 MR. MCNALLY: Yeah, Richard. This is Bob. We
17 can maybe talk to you separately to go through how we
18 do our assessments for microbial and biochemicals.
19 But, yes, I think the answer to your question
20 essentially is yes.

21 MR. GRAGG: Okay, thank you.

22 MR. KEIGWIN: Okay. We'll close out with Nina
23 and then take a short break.

24 MS. WILSON: Yeah. So just to address the
25 last statement about what do the commercial people do

1 that aren't addressed by EPA. But the biggest
2 challenge is making sure that the microbe is in a
3 delivery system that does last in getting it to the
4 plant, you know, and how it needs it. And so the
5 challenge isn't -- you know, the challenge isn't making
6 sure it lasts long enough to get it there and get in
7 the formulation and it's not had a -- is it going to go
8 away? You know, if that makes sense. It's just --
9 they're living organisms, yes, but they live in a very
10 sort of finite area and don't last that long
11 oftentimes.

12 MR. KEIGWIN: All right. Thanks, Bob and
13 Russ, and thanks for everyone for participating. It's
14 10:30. Let's regroup at 10:45. Thanks.

15 (Brief recess.)

16 MR. KEIGWIN: So for this, what -- in the
17 interest of time, I think what we'll do is we'll
18 combine the last two sessions. So as you know the
19 charter for the PPDC expires later this year. And in
20 addition, all of your terms expire later this year.
21 Some of you are eligible for renomination and
22 reappointment, and others of you are -- have hit your
23 six years and we'll talk about that in a little bit.

24 So every two years when we go through the re-
25 chartering process, one of the things that we like to

1 do within OPP is to take another look at the charter,
2 see what has been accomplished by the PPDC over the
3 last couple of years and think introspectively about
4 how we could better engage you all, better take
5 advantage of the time, effort and the energy that you
6 put into participating in this meeting and giving us
7 advice.

8 One of the things that in beginning to do that
9 that we realized over the last month or so is that
10 we've not ever really asked that question of you all.
11 And so since you have been so engaged with us over the
12 last two years, so as we go into this re-chartering
13 process and building off of the comments that Alex
14 shared with us earlier this morning, we wanted to get
15 some input from you all. Not so much on the charter,
16 per se, but really on based upon your experience how do
17 you all think that we could strengthen the
18 effectiveness of the group; how could we better engage
19 with you. And so I'll leave it there and kind of just
20 open it up to the group.

21 Okay. Amy Liebman and then Amy S.

22 MS. LIEBMAN: Well, thanks for throwing this
23 question out to us. I think it's a good question. And
24 I have, you know, for varying things been in different
25 roles on this committee for a while.

1 You know, the first thing that I think that,
2 you know, in the spirit of Alex and in the spirit of, I
3 think, the intent of the PPDC, is we really need to
4 look at the stakeholders around the table and are we
5 well represented? And if we aren't getting the
6 stakeholders here, what are the barriers to getting
7 them here?

8 So I look at sort of, well, right now we have
9 officially one farm worker representative, which is
10 Eunice. I'm under the public health umbrella. We have
11 very few, you know, environmental organizations. And
12 so, you know, it's -- it's not -- it's not a balanced
13 discussion that we have. I think, you know, I'm a
14 strong voice for some of the things that I represent,
15 but I'm just one voice.

16 The other piece that I am really confused
17 about that I think would help with some clarification
18 is that when we go around the table and we say, you
19 know, I'm here representing this; I'm here from this
20 organization, indeed I am here for Migrant Commissions
21 Network. But I am told that I am not representing
22 Migrant Commissions Network, per se. I'm supposed to
23 be the public health representative.

24 So I'm finding it confusing when we talk about
25 sort of what our different roles are, like, are we

1 representing the industry that we work for or the
2 Agency that we work for, or are we representing this
3 topic? And I think that there seems to be some
4 confusion sometimes in sort of our comments and where
5 that's coming from. So that's just a point of
6 confusion that I think would be helpful to clarify.

7 And then the last thing I think that would be
8 really helpful is a much more transparent process in
9 terms of the agenda. I just feel like I sort of put
10 agenda suggestions out there and they go into some dark
11 hole and they're ignored or I get a one-pager on them.
12 So that's not transparent. It's not helpful. And it
13 doesn't encourage further participation.

14 So, you know, those are -- those are just some
15 initial comments. But, again, I appreciate you opening
16 it up and getting some input.

17 MR. KEIGWIN: Thanks. Amy S.?

18 MS. ASMUS: I have a couple points I put down
19 here. One, I think it's good that we meet at least
20 once or twice a year face-to-face around the table. I
21 don't say this very often, but I agree with the other
22 Amy that there needs to be a representative of the
23 stakeholders. We deal a lot with wicked issues in ag
24 and it's not just the practitioners that have to deal
25 with the issue. There's a lot of stakeholders. And

1 whether we agree or disagree around the table, I think
2 it's very important that we are available and open to
3 listen to other issues that might not be consistent
4 with our perception. So I think that's excellent.

5 I find it frustrating at times that some of
6 the issues come and go in between that calendar event
7 that we have our meetings on. So I personally would
8 like to see maybe more communication, however you
9 define that communication, in between the time so that
10 other than public comment periods we would have some
11 input into some of the issues that fall in the cracks
12 of the calendar dates of the meetings.

13 I think -- we talked about it a little bit
14 yesterday. I think the workgroups or the subcommittees
15 as they are in the charter are excellent. The public
16 health workgroup has brought a lot of perspective from
17 those people that work with it day-to-day to this group
18 that this group does not have time to explore for
19 themselves. And I'm excited at the possibility of
20 forming another workgroup around the PRIA 4 set-aside
21 topics. I think that really when you can incorporate
22 the expertise of people around the room, all
23 stakeholder expertise around the room, into groups that
24 are very focused with a goal, really bring some benefit
25 back to this group so that we can comment on something

1 that's not just a blank page; comment on something
2 that's had thoughtful work put into it.

3 We do really -- at least I do, I think some
4 around the table agree, we need charge questions and
5 support material much earlier. Amy had kind of alluded
6 to that. I represent many different groups here. I
7 was nominated by the Weed Science Society. I work with
8 Ag Retailers Association. I'm a retailer myself. I
9 work with the Certified Crop Advisor Group. And I do
10 like to send out that meeting agenda and get feedback
11 from those people that put me here as a voice. And I
12 can't do that when I get it Monday morning, especially
13 when I come from Iowa and there's many other meetings
14 that are set up around my trip into town that --
15 it's -- I just need them earlier. I would request them
16 earlier so that we could really have some thoughtful
17 feedback and not just what do I think today before I
18 sleep on it and have to comment again tomorrow.

19 And the other thing I really loved at this
20 meeting was the introduction of Alex Dunn. I wish that
21 there was more opportunity for this group, especially
22 since we're an advisory group or discussion group, to
23 know the people that are the EPA that serve us and our
24 needs as stakeholders.

25 And so I would encourage you, whether it's

1 through those inter-meeting communications or at the
2 meetings, too, to really bring forth some of those
3 partners that we work with in the EPA that we don't
4 necessarily get to meet through the meeting process.
5 Thank you.

6 MR. KEIGWIN: Charlotte, then Allen, then Pat.

7 MS. LIANG: Okay, thanks. And I also say
8 thanks for including us in the agenda. And I'm going
9 to be redundant from what Amy just said. I just want
10 to reinforce some of her comments because she actually
11 conveyed it very nicely.

12 But I know a lot of work goes into preparing
13 for the PPDC from EPA's end and from some of the other
14 speakers, and it's obvious the quality of information
15 is really good and I think it really helps us
16 understand the issue. And if that information can be
17 provided, you know, even two to three weeks in advance
18 -- I know that's kind of difficult, but it really does
19 help us come prepared and be able to vet out some of
20 those charge questions with the stakeholders that we
21 represent.

22 So I'd really like to support that idea. I
23 think it would be really, really helpful and useful and
24 maybe would avoid having even some of the workgroups
25 that, you know, are being suggested. I mean, I think

1 some workgroups are really necessary in some of these
2 cases for sure.

3 And then in the event that any of us are not
4 able to attend in person, we've been able to gather the
5 input. At least we can get it to you somehow in
6 advance of the meeting or share it with somebody else
7 that can maybe speak on our behalf. I think that's it.
8 So, thanks.

9 MR. KEIGWIN: Thanks, Charlotte. Allen?

10 MR. MCLAURIN: Thank you, Jim. Jim, this has
11 obviously been a learning experience for me for the
12 last four years, six years, 20 years, however long it's
13 been. But, anyway, I appreciate the opportunity to
14 have done it and to be here. And I want to thank Amy
15 for her comments.

16 I do think you probably need some more
17 producers here to kind of learn from the people here
18 that are educated in environmental issues that we're
19 all facing. I'm fortunate, I've had the U.S. military
20 backing me up this time, so I felt pretty good. I
21 wasn't here by myself.

22 But, you know, one thing just thinking out
23 loud is the possibility that some of these people I'm
24 sure around the table have never been on a real working
25 farm and see what we're doing and what we're facing

1 every day. Worker protections in August, you know,
2 it's tough to wear those suits all day long. It's just
3 -- you know, we've got to make them available. We
4 encourage them to wear them. But there are times that
5 it's just impossible to do so.

6 And I just -- you know, if you can tie
7 something in, a day trip, see what the National Cotton
8 Council and farms around here within 40 miles, cotton
9 farms, and just a possibility in the future of getting
10 individuals out on the farm, see really what's going
11 on. Thanks.

12 MR. KEIGWIN: Thank you. Pat, then Jay, then
13 Dan.

14 MS. BISHOP: Yeah. Reiterating some of the
15 stuff, but also adding to that. I think, you know, we
16 only meet twice a year and, you know, six months in
17 between meetings is a long time where we don't see each
18 other, we don't discuss things with each other. And I
19 -- and certainly there's a very diverse set of subjects
20 that's covered in these meetings. I mean, there's
21 things that I'm interested in and then there's things I
22 know nothing about and I feel like I can't participate
23 really.

24 But I think like the subgroups or the working
25 groups, there's a way to have kind of standing groups

1 that, you know, people that are interested in a
2 particular subject area. I know when I was on the Tox
3 21 group, I felt like, you know, I was working with
4 people that were interested in my area and we could
5 give feedback to EPA. I know it was on a specific
6 topic, but if there was some way to try to meet either
7 by phone or in person in between meetings, you know,
8 sort of subgroups of people that could meet directly
9 with EPA and go over certain topics, I think that would
10 be really helpful if we -- you know, if there was some
11 way to set that up.

12 And just -- I guess, you know, what some
13 people were saying, add more -- if environmental issues
14 are a big part of this, maybe more people in that area
15 should be present or more producers should be present.
16 Again, what Amy was saying of getting a better or a
17 more representative balance of people sitting in the
18 room here that could add to the discussion. So that's
19 what I have. Thanks.

20 MR. KEIGWIN: Thanks, Pat. Jay, then Dan.

21 MR. VROOM: Thank you. Rick, I think there's
22 an ebb and flow that you've seen through the history of
23 PPDC that probably is driven somewhat by the priority
24 issues that are in front of the Agency. I think the
25 ability to be more flexible around agendas like was

1 reflected in my view of the approach to the two major
2 issues that were on our docket yesterday with a lot of
3 good external presentations is good. But that means
4 that you're challenged to try to get outside speakers
5 to submit information in advance and that ties your
6 hands.

7 So I think we need to -- as members today of
8 PPDC acknowledge, that you don't control everything
9 that is related to the preparation of the agenda even
10 for this meeting. And you're also at that discretion
11 of those who participate that aren't part of PPDC to
12 bring quality information here. So it's not any one
13 single entity's fault as to how far in advance we get
14 the information, and I think the priority of having
15 good information and good presenters outweighs some of
16 the offset of maybe getting things closer to the point
17 of the meeting.

18 I also think taking a revisit strategically
19 toward the balance and composition is appropriate.
20 It's not the first time that this has been discussed.
21 In my recollection, it's been discussed every time this
22 topic has come up as the charter had to be renewed. So
23 that's fine and good.

24 I would advocate that you consider creating at
25 least an outline of kind of minimum criteria for

1 nominees for PPDC so that people that come here and
2 participate as members are able to be able to interact
3 with each other and the Agency on a more common level
4 of experience and background. It wouldn't probably be
5 appropriate for that to be a hard and fast test, but at
6 least an outline of criterion for candidacy would
7 perhaps be more helpful as you go about figuring out
8 who will be the nominees and those that will be put on
9 the PPDC for the future. Thanks.

10 MR. KEIGWIN: Thanks, Jay. Dan?

11 MR. KUNKEL: Thanks, Rick. I just really kind
12 of echo what has been said already. But I think
13 getting more information in advance. I did appreciate
14 getting emails kind of throughout the year where it
15 would get sent to the PPDC about, thought you may be
16 interested in this. It was nice getting those. I'd
17 like to see more of those. Maybe having an interactive
18 website and maybe that will help us communicate more
19 throughout the year when issues come up.

20 And, also, just thinking maybe a formal type
21 of questionnaire. We had the slides. We had a number
22 of questions on them. But we didn't always really
23 answer those questions. So maybe a -- either a formal
24 process on how to improve the committee, but then also
25 with regard to some of the slides and some of the

1 questions that were on there so we could formally
2 respond. And we know your emails, we know Shannon's
3 email. So we can send them there, too.

4 And then finally I thought, yeah, Alex --
5 having Alex here was great today. I guess if she came
6 yesterday, then she would hear through our
7 introductions who we were. But I thought it would have
8 been nice if all of us could kind of introduce who we
9 were and what sector we were representing.

10 MR. KEIGWIN: Lori?

11 MS. BURD: Thanks. So I want to talk about
12 diversity, equity and inclusion in this room. I'll
13 start with something positive to throw you off guard a
14 little bit since you won't be expecting that from me.

15 We do a good job of having a pretty decent
16 gender balance in this room. So that's one thing
17 that's going well. The racial makeup around this table
18 does not reflect our country, and we should be looking
19 at why that is. We could do better on that.

20 And class. Are we representing a diverse
21 array of classes. Those are just, you know, a couple
22 of the categories of diversity that I'd like us to
23 think about. And I'll talk about class a little bit
24 more. As we talk about equity, who has access to this
25 meeting? I think we would have a lot more diverse

1 voices if people could get here. Not everyone can put
2 a couple hundred bucks on a credit card in order to
3 make it to this meeting. And we need those voices of
4 people who can't do that to get here and we need to
5 figure out how to make that available for them. You
6 know, a lot of us that are here are supported by large
7 organizations. Not everyone, but some of us. And so
8 we need to think about who can come, who has access to
9 this Agency, who is meeting with you all regularly and
10 who only has a voice when -- if and when they come to
11 this table.

12 Inclusion. Who does and who doesn't talk
13 around here? There are a lot of people at this table
14 who never talk. And I'd like to hear what those folks
15 have to say as well. And I say that as one of the more
16 vocal people around this table. I'd like to hear from
17 more voices here.

18 The makeup of this group, I want to echo some
19 of the comments that have been made. We have very few
20 people representing the public interest community. I
21 think there are some reasons why. I think there are
22 reasons why when I encourage other people in
23 environmental groups to want to come, they don't want
24 to come. And we should -- we should do some soul-
25 searching as a group about, you know, how effective can

1 we be without some really key, important voices here.
2 You know, and I can list what those are or we can, you
3 know, reflect on it more.

4 The content of what we talk about. If we are
5 truly a dialogue group, then we'd like to hear more
6 from EPA. It seems like it's -- you know, we're
7 getting information about your processes on highly
8 noncontroversial topics and some slightly controversial
9 topics. But the really hot topics of our day we're
10 reading about in the Federal Register just like
11 everyone else. We're not actually having robust
12 discussions about things like the revised approaches
13 that Alex mentioned are coming out soon. Without
14 having frank discussions on those hot topics and
15 without having many of our agenda items accepted over
16 and over, it feels discouraging.

17 So we'd like to be queued into those actual
18 processes as well. Thanks.

19 MR. KEIGWIN: Sharon?

20 MS. SELVAGGIO: I'd like to say, I mean, I
21 really appreciate the opportunity to be on this group.
22 I've learned a lot. There's a lot of different
23 stakeholders represented in this group. There's been a
24 lot of topics. It's been very educational. I've
25 really appreciated that.

1 I do want to echo a couple of other comments
2 and then bring up a couple of things that haven't been
3 brought up. The absences that have occurred as some
4 people have moved on to their jobs -- moved on to
5 different jobs, has left more of a gap, especially in
6 the environmental side than I think was originally
7 intended to occur.

8 And it's not really clear to me why those
9 absences are not filled. I think there needs to be a
10 process where if we lose a member because they die or
11 move on to another job or whatever that we actually fill
12 that absence and not wait for two years to go by.

13 So it seemed to actually work a little
14 differently in the past, and so I'm just confused about
15 the process. But I think we need to maintain, as many
16 people have said, a diversity and a balance among the
17 members of the group.

18 Another thing I'd like to talk about is
19 basically, you know, there's a lot of avenues in which
20 EPA gets commentary from different stakeholders. And
21 one of them is the public comment process. You have
22 scientific advisory committees. You have us. You have
23 meetings that, you know, happen with you as staff with
24 various people. And, to me, it's not really very clear
25 where the dividing line is between our role and those

1 other avenues.

2 And so to sort of echo something that Lori
3 M. just said is that, you know, sometimes it seems as
4 if we're being brought the less controversial topics.
5 And I'm just not really clear. Some of these emerging
6 issues and stuff like that, I think it's great that
7 we're talking about them when they are emerging. But
8 there are obviously some really big topics on the table
9 from time to time. And it's not clear sometimes why we
10 don't really understand what's happening sort of behind
11 closed doors, so to speak. The updates don't always
12 really tell us much.

13 And so I guess I'd just like a better
14 understanding and maybe some cross-fertilization
15 between this group and the scientific advisory
16 committees and so on and so forth. I'm not quite sure
17 what the solution is, but some people have mentioned
18 more regular updates perhaps between the six-month
19 meetings. You know, kind of trying to really
20 understand how do we differ from sort of a public
21 comment period. So that's one thing.

22 I think when I look at the EPA's work with
23 regard to pesticides, I think the process of risk
24 assessment is obviously extremely central to what -- to
25 EPAs decision-making. And those risk assessments are

1 usually posted and available to the public for comment
2 and so on and so forth.

3 But because these are so incredibly important
4 to the decision-making process, for pesticide
5 registration especially, I think it's just really
6 important that this group understand those processes
7 and we spend more time talking about what those
8 processes are. And EPA sometimes changes the
9 processes, the assumptions, the model, et cetera, et
10 cetera, that go into those. I think we really need
11 more information shared in this group about that
12 because the decision-making is supported by those risk
13 assessment processes. And a lot of times we learn more
14 through the news than we do -- you know, with trying to
15 dig through these lengthy technical documents, you
16 know? So I would suggest that that be a little bit
17 more central to some of the agendas.

18 The last thing I just want to mention is that
19 I think we need a better understanding and more
20 information about the relationship between OPP and the
21 EPA as a whole, other branches. You know, budget and
22 staffing is always a really -- having been a federal
23 employee before, you know, I mean, that really
24 influences what an Agency can do. And some people are
25 saying that because there's been such a drop in the

1 scientific staffing in the Office of Pesticide Programs
2 that the quality of risk assessments has really
3 declined.

4 And I think that it would be really helpful
5 for us to really have a better understanding of that.
6 You know, what the trends are in your budget, staffing,
7 you know, who the faces are at the top and, you know,
8 in each program. So I just think that that is really
9 important. It usually goes unmentioned. But we have to
10 have quality staff work done in order to have quality
11 decisions. And so I think this group needs to have an
12 understanding of that, too.

13 MR. KEIGWIN: Let's open up the line for Iris,
14 Andrew and Richard to see if they have any --

15 MS. FIGUEROA: Go ahead, Andrew.

16 MR. KEIGWIN: Okay. Andrew, why don't you go,
17 and then Iris.

18 MR. THOSTENSON: Yeah. My concern obviously is lead
19 time on some of these topics that are being brought
20 forward. Typically what I would like to do with my
21 organization, AAPSE, is to be able to send out what the
22 agenda is going to be at least a week or so ahead of
23 time so that I can ask the membership if there are any
24 specific items that they really want to reflect upon so
25 that I can, you know, speak a little bit more

1 universally about what AAPSE is thinking as a group
2 rather than just what Andrew is.

3 So I would appreciate that. There were some
4 earlier comments about transparency on setting the
5 agenda. And I don't know how to attack that problem.
6 But I think that the agendas -- at least understanding
7 what is, you know -- what the criteria is behind what's
8 being put on the agenda, I think would be helpful. So
9 that's all I have for now.

10 MR. KEIGWIN: Okay. Thanks, Andrew. Iris?

11 MS. FIGUEROA: Thanks. And thank you for the
12 question and the conversation. A few thoughts.
13 Echoing what other folks have said, I think that the
14 balance issue is really important. And I think in
15 order to achieve that, it's really -- it would be
16 really helpful to have a sense of sort of objective
17 standards of what that balance looks like because we do
18 get a list of who is currently in the committee. But
19 that doesn't necessarily reflect what we would ideally
20 like it to look like in terms of balance. So that
21 would be helpful to help us work towards that.

22 I think the vacancy issue, as I think Sharon
23 said, have also sort of exacerbated that and it seems
24 that if the idea of the PPDC is to have as many
25 stakeholders as possible at the table, then we're kind

1 of shooting ourselves in the foot if we're not filling
2 those vacancies with people who can represent those
3 viewpoints that for whatever reason are not able to be
4 at the table at that time.

5 And similarly, you know, we all make our best
6 effort to be there. But we all have other roles and
7 other work that we're tackling. So there might be a
8 situation where despite our best efforts we're not able
9 to be there. So having the opportunity of somebody
10 from our organization who's also a representative
11 to fill that space, obviously, you know, with advance
12 notice and all of that and making sure that's somebody
13 who's qualified to be there I think would be helpful as
14 well. And as I understand, it's something that has
15 been done in the past. So I'm also a little bit
16 confused about why that's not feasible anymore.

17 The issue of lead time and having the
18 information before, again, recognizing that there's
19 challenges and that the Agency can't control, you know,
20 all the different parties. But to the extent that we
21 can at least try to have some of that information
22 available, that will make our feedback that much
23 better.

24 I also had a question and was hoping to
25 get some clarification about the agenda topics and

1 the issue of rule-making specifically and what is
2 the criteria around that and the timing of when an
3 issue can or can't be discussed as it relates to rule-
4 making.

5 And then my last point -- and Jay mentioned,
6 you know, the opportunity to be on the ground and visit
7 with farmers, et cetera, and this is a broader issue
8 than the PPDC. But we feel that it's really important
9 for the Agency to be on the ground talking not just to
10 farm producers and employers but also to farm workers
11 and organizations that serve them. Thank you.

12 MR. KEIGWIN: Thanks, Iris. Liza?

13 MS. TROSSBACH: Thank you. I think a number
14 of the comments that were made were, you know,
15 absolutely appropriate as far as getting materials in
16 advance and those kind of things. And certainly, you
17 know, balancing the group.

18 Just, too, to kind of ask or suggest. One is
19 as new members will be coming on, I mean, I would like
20 to suggest that there's some kind of onboarding
21 process. There's a document that's included in our
22 packet that talks about PPDC, what the expectation is,
23 what, you know, the duties of the members are, et
24 cetera; what groups are represented at the table.

25 There are thousands and thousands of groups.

1 Obviously at some point you can't have all of them
2 participating, you know, in this venue. There are
3 other opportunities as well. But certainly a lot of
4 that I think is in here, but I think it's worth the
5 discussion. But maybe some onboarding, you know, would
6 be helpful as -- you know, as new people come in.

7 And then the other thing that I wanted to
8 mention, based on my experience here, I've noticed some
9 topics come in without adequate background information
10 being provided to all the, you know, participants.
11 Obviously, everybody has their area of expertise;
12 everybody understands certain aspects of different
13 topics. But I think sometimes some background
14 information more than is currently being given not only
15 in advance but in the meeting would be helpful. And
16 that's not only for this group, but also for the
17 working groups.

18 I had the experience, just as an example, with
19 a pollinator protection plan metrics group. They did a
20 lot of work. But it was -- it seemed to me that they
21 didn't understand the impetus for the plans or how they
22 went about being developed.

23 So while at the end of the day the product
24 came out, I think it might have been more productive
25 earlier on if they had understood how they were

1 developed; they were voluntary, you know, those types
2 of things. A little bit more background information
3 for those that weren't as aware or understand that
4 process as much. So that would, you know, just be my
5 two suggestions.

6 MR. KEIGWIN: Thanks, Liza. Any other --

7 MR. GRAGG: Yes. Richard Gragg.

8 MR. KEIGWIN: Please.

9 MR. GRAGG: Thank you. Well, I agree in
10 general with everything that's been said prior. I do
11 want to focus on that our makeup or criteria for makeup
12 should be to achieve -- or should take into account who
13 our target audience is. And I think we -- I think that
14 should be part of the criteria of who ends up on the
15 board.

16 Okay. And along those lines as well, in terms
17 of getting more voices or more representations from who
18 the stakeholders are, I think the presentations that
19 happen is another way to do that, to get different
20 viewpoints and different opinions before the PPDC as
21 far as what our topics are.

22 I think also that another way to involve more
23 stakeholders is to figure out what activities that the
24 PPDC may get involved in or have us be involved in
25 between the -- during the six months between the

1 biannual meetings.

2 What was the other one? And I think if the
3 PPDC and EPA's really committed to transparency in
4 communications, I think -- I think we should see that
5 in the charter -- in the new charter and in the makeup
6 of the PPDC and who's included in all of our
7 activities.

8 And then I do want to just, I guess, reiterate
9 this issue of the significance of the risk assessment
10 and that we should get more information about that for
11 the PPDC.

12 And I just want to come back to my opening
13 statement. I think the makeup of the PPDC, I think the
14 more diverse in terms of what people know, where they
15 come from, who they represent, is going to give us a
16 better output or better information to the EPA. We
17 just can't have one level or people who are all
18 knowledgeable about EPA and all the regulations. I
19 don't think that's going to give us the results of what
20 we need as far as the PPDC. So, thank you.

21 MR. KEIGWIN: Thanks, Richard. Any other
22 feedback people want to share?

23 (No response.)

24 MR. KEIGWIN: So thank you to everybody who
25 did share. I think -- I'm not going to capture

1 everything in what I say here. But I think we heard a
2 lot about balance and composition of the group that we
3 need to be considering as we think about our outreach
4 plan for recruitment for the next round. So thank you
5 for that input.

6 A number of very good suggestions relative to
7 better planning and better preparations on our part so
8 that you all have more time to think about what we're
9 putting before you, the areas where we're seeking
10 advice, but also give you time because you do represent
11 broad sectors of people, even though you do bring your
12 own specific expertise to the table. But you need time
13 to think about that and you need time to engage with
14 others. So we need -- that was a very good suggestion.
15 So thank you for that.

16 In that same spirit, I heard about -- heard
17 some suggestions relative to inter-sessional
18 communications and a couple of different ways to do
19 that. One of the things I want to get some input from
20 you all on is in the area of workgroups. Because we
21 did have some discussion today about workgroups and I
22 think -- I think Alex actually gave us a charge in a
23 couple of areas this morning in her remarks that we
24 might want to think about some additional workgroups.

25 Some -- Liza's suggestion about onboarding. I

1 think that's something that we had done in the past
2 about sort of overviews of the regulatory processes and
3 the risk assessment processes that could be very
4 helpful not just for people that have been on the PPDC
5 before but for new members as well. Because that can
6 help to, I think, inform not only what topics come to
7 the table but by the context for topics that we bring
8 forward.

9 And then obviously many others, but just a
10 collection of topics and how we can better engage you
11 all in the suggestion of topics. We feel that we need
12 some specific input, balancing that with the needs that
13 you all as members have because there might be areas
14 for which you think you should be hearing and providing
15 input. And we're not necessarily -- we haven't always
16 given that opportunity. So we'll have to think about
17 that a little bit more. But thank you for those as
18 well.

19 I'm sure there are others. We've all been
20 taking notes up here. But those were kind of the four
21 or five major thematic areas that I heard. So thank
22 you for that.

23 And I guess the last thing would be just some
24 things relative to process, when a vacancy happens, how
25 can that be filled. In the past, I wanted to

1 acknowledge something that Iris had said that in the
2 past we had allowed substitutions kind of -- if a
3 member could not get here on -- for a specific meeting.
4 We actually recently heard from the people that oversee
5 FACPA operations that we can't do that. So despite the
6 fact that we had been allowing it, that was not a
7 proper procedure. You all are appointed by the
8 administrator, and so to allow a substitution is
9 inconsistent with the administrator appointing each of
10 you.

11 So -- but we can -- what we can do is we can
12 talk to the people that administer the Federal Advisory
13 Committee Program for the Agency to say -- to find out
14 if there is an alternative way to handle that. So good
15 point. It -- there has been a deviation from past
16 practice. And I don't think we ever explained why. So
17 I thank Iris for asking the question. But that being
18 said, sometimes when somebody can't participate and
19 they can't have a substitute, that can lead to a
20 balance consideration. And so I think we have to think
21 about that as well.

22 So -- so specific workgroups. We talked
23 yesterday about continuing the public health workgroup
24 but with a different charge. And so being -- the plan
25 -- the recommendation there was we would have the

1 workgroup think about some additional topic areas that
2 would be helpful, and then that would be something that
3 would come back at the next PPDC meeting in the fall so
4 that we could then select a topic or topics with a very
5 specific charge.

6 Did you want to add anything to that?

7 UNIDENTIFIED FEMALE: And so just following up
8 on what some of you suggested yesterday, maybe what we
9 can do is have Shannon send out an email just to make
10 sure we capture it because I think Rick said, too, that
11 if we could get a little more clarity about what folks
12 were thinking, you know, more specifics, I think that
13 would help us with that list of topics as well, and if
14 you have any others to suggest.

15 MR. KEIGWIN: Thanks. And then the second
16 area that we talked about was a -- and it was mentioned
17 here again this morning, was workgroup relative to the
18 set-asides. And I think it came up specifically in the
19 context of evaluating the effectiveness of the set-
20 asides as it relates to worker safety programs.
21 But there are a number of set-asides in PRIA that I
22 would -- we have specific requirements relative to the
23 worker safety piece. So that's -- that's an important
24 thing to get going soon. But there certainly might be
25 other areas as well that we would task a workgroup or

1 that workgroup to engage in.

2 One area that I heard Alex talk about, and
3 it's something that she's talked a lot to us since
4 she's come on board in January, is about risk
5 communication. And so I wanted to get input from you
6 all about -- and I would need -- we'd need some help in
7 framing what that workgroup might look like. But is
8 that an area. I think in the 24 years of the PPDC, we
9 haven't had a lot of discussion at this table about
10 risk communication, and would that be a valuable
11 workgroup to try to stand up.

12 Mina looks hesitant.

13 MS. WILSON: I mean, I think if I say "biological
14 products" one more time, everybody is going to leave the
15 table. But, you know, our industry is kind of a unique
16 industry and the kind of data that's behind it or not
17 behind it is confusing to people. But the risk
18 assessment certainly is as rigorous, or we feel like
19 it's rigorous, sometimes maybe far rigorous, and it's
20 very difficult to explain to people the benefits of
21 what biological products do and can't do and how EPA
22 looks at that and how the industry looks at that. And
23 so I think that would be a good topic to talk about
24 risk communication. So, I mean, whether we frame it in
25 something else or not, you probably can tell that I'm

1 anxious to make sure that people understand what they
2 are and what they can't do, what -- and all the
3 benefits that they can give to a program.

4 MR. KEIGWIN: Dan and then Liza.

5 MR. KUNKEL: Yeah. I think it's a good idea,
6 Rick. We've heard about some of the onboarding
7 training and for some people who don't have expertise
8 in certain areas. So I think risk communication would
9 be a very valuable thing to add to one of the working
10 groups.

11 MR. KEIGWIN: Okay. Liza?

12 MS. TROSSBACH: I'll just add, you might think
13 that basically we all do risk communication every day
14 in our jobs no matter what our -- what organization,
15 you know, we're representing. I don't know exactly how
16 a worker would be framed, what the charge would be, but
17 I certainly think that that's something that we all
18 face, you know, every day and would certainly be worth
19 looking at or trying to scope out what -- you know,
20 what a product would be; you know, what would be the
21 purpose, but is certainly important to all of us from
22 our respected areas.

23 MR. KEIGWIN: Are there -- what other
24 workgroups areas, to kind of continue the conversations
25 intersessionally? I don't want to -- I realize

1 everyone has lots of other things going on and so we
2 can't have an infinite number of workgroups. But are
3 there other priority areas that you all -- not only
4 from your time on PPDC but from your engagement on
5 these issues feel that there would be value in having
6 deeper intersessional discussions so that we have
7 things framed up in a deeper way for when we are
8 together? And if nothing is coming to mind today,
9 that's fine. Amy?

10 AMY: Nobody throw anything at me. I do think
11 that it's very important for the end user since the
12 label is the law -- and we've said that several times -
13 - to really have somebody look at. And I think we have
14 to involve industry because it would be a big thing.
15 But to really have the sections on the labels to be
16 consistent for all products. Because when I worked
17 directly with the growers that are going to apply this,
18 there's a lot of confusion, where do you find it, where
19 can -- they call me standing on their spray wagon and
20 they say where do I find this in the label; I'm looking
21 and I can't find it. And I would at least be able to
22 say section two is this, section four is this.

23 And so I don't know if that's a workgroup type
24 of an issue, but I do think it's something that the
25 Weed Plant Society would like addressed. And I think

1 it's something that I personally would like to be able
2 to be more effective with the people that ask us
3 questions around the label. Since the label is the
4 law, I think it should be consistent and understandable
5 for everybody.

6 MR. KEIGWIN: Thanks, Amy. Let's go to the
7 phone and then I have another question for you all. So
8 anyone else on the phone?

9 MR. GRAGG: Yeah. I would just say that on
10 any workgroups that if there's a way to integrate more
11 than one topic, obviously they would be relative to
12 each other. I think that would be helpful for -- in a
13 lot of different ways, especially in terms of getting
14 everybody in the workgroup up to date about a lot of
15 things that we're involved in or EPA is involved in.
16 So I'd like to see more of a cross-pollination in terms
17 of topics and activities that workgroups are engaged
18 in.

19 MR. KEIGWIN: Thanks, Richard. So one
20 question I have, so just even looking at this meeting's
21 agenda, the vast majority of the topics were
22 agricultural focused. So I'm kind of looking at our
23 non-ag members, Jim and Steve. Are there topic areas
24 -- and I think Kamal wasn't able to join us for this
25 meeting, but even in the antimicrobial space, you know,

1 are there topic areas that -- from the non-ag side of
2 things you all think would be beneficial for this group
3 to be discussing, or things that are cross-cutting
4 between the ag and the non-ag spaces?

5 JIM: So, I mean, thanks for bringing that up,
6 Rick. Because when it comes to -- you know, in terms
7 of structural pest control, we -- I feel like we kind
8 of cross the line -- or not cross the line, but we span
9 many of the different things. So in terms of, like,
10 worker protection, worker protection is really
11 important for structural pest control. We know we have
12 a -- you know, 250,000 applicators who are out there
13 working on a daily basis making applications in homes
14 and businesses across the country.

15 So that's important. When it comes to, you
16 know, ideas like label clarity. It's really important
17 for us because we have folks that, you know, have a
18 wide range of educational background. And so simple,
19 easy to read labels are important.

20 Now, I understand that there's 100-page labels
21 in agriculture. But those 20-page labels in structural
22 are difficult. Right? So whether it's 20 pages or
23 it's 100 pages, it's still tough to kind of wade
24 through that. So that's important to us. So I think
25 they're also important topics, right along with -- I

1 mean, and I can see also when it comes to risk
2 communication, when I think of risk communication,
3 something that Alex mentioned earlier kind of resonated
4 and everyone touched on it, but might as well do it
5 again. The idea of credibility. And our businesses
6 that we represent, the users that we represent, the
7 clients that they serve, all rely on the credibility of
8 EPA. And so we feel -- and I think that it's important
9 for EPA to communicate -- to better communicate the
10 risk and the benefit, as well, of pesticides.

11 Because when it comes to communicating with
12 clients across the country, our members recognize that
13 for most of the folks who consume structural pest
14 control, the only pesticide applicator they know, the
15 only pesticide expert they know, is the guy that's
16 spraying the outside of their house for spiders. And
17 so our message for our people is that, you know, we
18 rely on EPA to ensure that the products that we use are
19 safe to use when they're used according to label
20 instructions.

21 And so that's important for -- that's
22 important for us. And so discussions around those
23 topics would be good in the future.

24 MR. KEIGWIN: Thanks. Steve and then Amy.

25 MR. BENNETT: I'll echo a lot of what Jim said as

1 well. You know, because, you know, we were on a lot of
2 the same challenges. I think also with the consumer
3 space, the label -- consistent and clear labeling
4 instruction is pretty challenging.

5 I think another -- I'll broach another topic.
6 I know it's cutting edge, is the ingredient
7 communication piece probably, which we're obviously
8 working a lot with as the retailers and state activity
9 are moving into that place and that might be an
10 appropriate conversation to have in here. Where more
11 label information is trying to be placed on the labels
12 and a lot of it's driven on non-FIFRA products but it's
13 touching into that space and it may very well be
14 encouraged to move into that space or forced to move
15 into that space in the future. And how do you grapple with
16 that in making sure that the consumers who use those
17 products have the right messages and they're not
18 overwhelmed with too much information and ignore the
19 critical information. So I think that -- which falls
20 right into that risk communication piece as well.

21 MR. KEIGWIN: Thanks, Steve. Amy and then
22 Liza?

23 MS. ASMUS: Yeah. I just wanted to sort of make a
24 pun for the workgroups. And I certainly understand
25 sort of, like, the need for us to sort of keep up on

1 what's happening and, you know, the issues for us to
2 dive into. But I really encourage us as we move
3 forward to make these workgroups really succinct and
4 sweet and short.

5 I think it would just help -- like, we don't
6 have to go on for years and years in a workgroup. I
7 think we address a single issue and then we report back
8 and our job here is done.

9 I think, you know, perhaps we could get more
10 participation because of time that way, but, you know,
11 just as an example of the one yesterday. I mean, it's
12 a really succinct issue on how to help you evaluate the
13 effectiveness of a very small subset of the
14 partnerships. And so that's not, like -- that should
15 not take us a long time. And we could be, like, you
16 know, couple meetings and report back to you and be
17 done.

18 So I -- not all the topics are going to be
19 that simple or like that. I understand. And I think
20 if there's more topics then that we need to explore and
21 have more workgroups that would go into it. But just
22 keep it fast-paced, keep it, you know, very, very
23 succinct, very direct, so that we can help out with our
24 expertise and move on.

25 MR. KEIGWIN: Thanks, Amy. And to that point

1 from a Federal Advisory Committee standpoint, that's
2 actually what the purpose of a workgroup is, is to be
3 narrow, quick, targeted and be done. If it's something
4 that's going to be -- it's going to be saned over an
5 extended period of time, the advice that we have
6 received is that what we really need to do on that
7 topic is form a subcommittee that requires us to go
8 through the same type of outreach and solicitation and
9 empaneling process as we would for the full PPDC.

10 And so I think our goal has been over the last
11 couple of years in that given that process to design very
12 specific charges to workgroups so that we can meet the
13 spirit of FACPA but also tackling these topics. So
14 thank you for that feedback there. And that's why it's
15 also important that when we do form these workgroups
16 that we come up with a charge of a group that we can
17 then give to a workgroup that's very focused.

18 I think the pollinator metrics one is one that
19 comes to mind to me that it took some time to get it
20 going, but because it had a very focused charge it
21 could -- it knew what its scope was, it knew what the
22 intended deliverable was, and it could come forward
23 with a -- progress reports, but then "here's what
24 we've delivered; here's our advice; we think we're
25 done."

1 Liza?

2 MS. TROSSBACH: So followup on Amy's
3 suggestion and then what Jim had indicated about the,
4 you know, label language. That's something that's very
5 important to pesticide regulatory officials, of course.
6 I mean, that's the basis of all programs. Both AAPCO
7 and SFIREG have many different activities in that area
8 trying to make sure they're clear and concise.

9 I think one thing that would be of value if
10 this group decided to have a workgroup or look at that
11 issue would be to have all of these various
12 perspectives brought out that could be incorporated or
13 considered as part of AAPCO and SFIREG's activities.
14 So somewhat self-serving for me. But one of the
15 greatest benefits of me participating on PPDC is to
16 learn all the different perspectives that are out
17 there. I mean, I can speak for regulatory officials,
18 maybe a little bit of industry both on the aganomic
19 side because of my professional relationships.

20 But to hear all the many, you know, different
21 perspectives, and I think particularly with labels, it
22 would be great to hear directly from the various
23 groups, you know, what is important to the individuals,
24 that organization that you represent. You know, what
25 may be clear and concise to me is different than what's

1 clear and concise to somebody else. So I would
2 certainly, you know, support that particular effort
3 however that would be framed but to get some more
4 feedback about what the needs are. So if we make a
5 recommendation to EPA or say this is what we really
6 think, that we're taking that into account. And I
7 think that that would be, you know, really important.

8 And then just to add to Jim's comment about,
9 you know, the credibility of EPA, you know, I know --
10 you know, my job-based associations are based on EPA.
11 I -- you know, I believe in the process. I think
12 there's always room for process improvement. But I
13 think that's a very important issue, you know. And so
14 if there is something to do to kind of forward that or
15 enhance the credibility of EPA or provide constructive
16 suggestions for how to do that, whether it's more
17 communication, transparency, et cetera, I think that
18 that would be of value. We represent a very broad
19 group and I think it's up to us at this table to -- we
20 all have an interest and we know it's important and,
21 you know, and to project that as well. And so I would
22 support any activities there as well.

23 MR. KEIGWIN: Sharon?

24 MS. SELVAGGIO: When we talk about labels, I
25 support everything that's been said about labels. And

1 I also kind of think about pesticides related to, like,
2 pharmaceutical industry. Because when you think
3 about all the drugs that are available out there,
4 really most of them are only available by prescription
5 only; the vast majority. We as consumers can buy some
6 things over the counter, but it's really only a few
7 things that we can buy.

8 But with pesticides it's really the opposite.
9 Most pesticides are not restricted use. And so I would
10 like to see -- because I think education is one of the
11 primary risk mitigation measures or risk reduction
12 measures that we have. But we -- we really cannot
13 guarantee for all the general-use pesticides that
14 education happens at all. There's no -- you know, the
15 label is the law. But, you know, how many people even
16 read the label?

17 So I -- I guess I would like to understand
18 better and have EPA look at the criteria for
19 restricted-use pesticides, because the one thing that
20 we know about restricted use pesticides is that you
21 have to be licensed then to use them. And when you -- to be
22 licensed, you have to go through an educational process
23 that is somewhat rigorous. And that rigor and
24 education is a risk-mitigation measure.

25 And so if we have a workgroup that addresses

1 labeling, I'd like to see that be part of the charge,
2 just really what are the criteria and do they need to
3 be strengthened, and, if so, how.

4 MR. KEIGWIN: Steve, did you have another? I
5 just saw your tent card up. So one last check on the
6 phones. So -- and then we'll come to Aaron. So,
7 Andrew, Iris or Richard, any last comments?

8 MR. THOSTENSON: This is Andrew; I'm going to
9 pass.

10 MR. GRAGG: Richard is going to pass as well.

11 MS. FIGUEROA: Same for me.

12 MR. KEIGWIN: Thanks to the three of you.
13 Aaron?

14 MR. HOBBS: I'll add my thanks for teaching
15 this feedback. I am curious, there's been a lot of
16 feedback and I'm curious to see how you will process
17 all of it. I hope that -- confident having worked with
18 the Agency for a while that you'll take it under
19 consideration and move forward accordingly, because
20 there's been a lot of it. So I think that's great that
21 you're willing to take that on. And in my experience,
22 you've always taken that feedback seriously and under
23 the proper advisement.

24 I guess I just want to say there's always room
25 for any organization to -- and it's important for

1 organizations to listen to stakeholders and understand
2 how they're perceived. And there's a clear -- I would
3 say there's been a lot of feedback around improving how
4 the Agency communicates. I think it's important to
5 take that under advisement and look for those
6 opportunities.

7 I just would like to state for the record that
8 this Agency and this department is still the gold
9 standard worldwide for the registration of pesticides.
10 And I just would hate to leave the room on too negative
11 of a note about -- or too much of here's where you can
12 improve without proper recognition for. The United
13 States and this EPA is still the gold standard for
14 registration and regulation of these products globally.
15 So, thank you.

16 MR. KEIGWIN: Thanks, Aaron. So we -- I'm
17 going to shift to the public comment session. I think
18 we have pretty close to a hard stop at noon and then I
19 know some folks have flights soon early in the
20 afternoon. So we have three public commenters. So I
21 would first ask Keith Jones from BPIA.

22 MR. JONES: So I'm Keith Jones. I'm with the
23 Biological Products Industry Alliance, BPIA. And I
24 just wanted to add some brief comments on the
25 biostimulant guidance. First of all, I wanted to thank

1 the Agency very much on behalf of BPIA and the
2 biostimulant industry. We've been asking for guidance
3 for quite a while, actually, and I know a lot of work
4 went into preparing the draft guidance. So we really
5 appreciate your efforts to get it out.

6 We did file a request to extend the comment
7 period, and it sounded like with Bob and Russ the same,
8 that there was going to be some extension just so that
9 we can have more time to submit better comments. And
10 that's really what's that's all about.

11 As you did hear, there are a couple of issues
12 that the intention of the guidance is to give
13 clarification. We feel in its current state there are
14 some things that I would definitely clarify, but there
15 are some things that we think potentially are more
16 confusing. Table 4 is an example of that. So we
17 will certainly be submitting detailed comments in our
18 effort to help improve the guidance; to, you know, make
19 it, in fact, clarify.

20 And then also something else that was
21 mentioned, there is this work going on at USDA as a result
22 of the Farm Bill that EPA is participating in. We
23 would really encourage the two groups to coordinate
24 their efforts as you have been because, again, if you
25 were to look at biostimulants, if you were both to kind

1 of take a siloed approach to biostimulants, it could
2 lead to more confusion rather than clarification. But
3 we do believe, you know, if you continue to coordinate
4 your efforts with the guidance and this report that's
5 going to come out of USDA, we will get the
6 clarification for the industry that we're looking for.

7 So, again, I just wanted to thank you for your
8 efforts for putting out the guidance, and we look
9 forward to the opportunity to submit written comments.
10 Thank you.

11 MR. KEIGWIN: Thanks, Keith. The next person
12 we have is David Beaudreau from the Biostimulant
13 Coalition.

14 MR. BEAUDREAU: Thanks, Rick. My comments
15 actually won't be that much different from Keith's.
16 But I thank the Agency for working on this document.
17 I've been involved in biostimulants now for about eight
18 years in terms of seeking regulatory clarity. So I
19 think it's a good step that we have a guidance document
20 now to look at.

21 Similarly, we have some concerns with table
22 4, specifically listing of seaweed extracts and
23 humic and fulvic substances. You know, if you look at
24 market analyses of the industry, about 60 percent of
25 the biostimulant market could be captured by those two

1 subcategories of the umbrella term. So I think that
2 has a potential to create a lot of regulatory
3 uncertainty at the state level. And so we hope that
4 the Agency will look at our comments on that part of
5 the guidance.

6 And then in terms of the USDA effort, we would
7 strongly encourage USDA and EPA to coordinate with the Farm
8 Bill authorized language. The report to Congress is an
9 important step for the regulation of this product
10 category. So I think as long as we know that EPA and
11 USDA are coordinating, it will help avoid regulatory
12 uncertainty.

13 So we look forward to submitting some public
14 comments, and thanks for your time.

15 MR. KEIGWIN: Thank you. And then the last
16 public commenter that signed up was Ray McAllister with
17 Crop Life America.

18 MR. MCALLISTER: I just wanted to follow up on
19 a point raised yesterday by Charlotte Sampson in the
20 context of crop protection for hemp production. The
21 recent Farm Bill outlines a system of regulation for
22 production of hemp and regulation of those who produce
23 hemp with details to be filled in by regulation by AMS.
24 I think I understood Ed Messina to say yesterday that
25 EPA's regulation on crop protection for hemp production

1 would be conducted strictly in that context of the hemp
2 production as outlined by the Farm Bill.

3 The question I would like to raise is as the
4 crop protection industry seeks to register products for
5 use in hemp, they have to do that on hemp that is
6 legally produced. And I'm curious about the role that
7 EPA will take or assume in assuring that the data and
8 studies provided to support a crop protection use are
9 conducted on the hemp that is legally produced. Will
10 there be some means or some requirement to demonstrate
11 or document that, yes, the growers of the hemp on which
12 we get our studies were legally authorized and
13 registered to produce that hemp.

14 It's not a question to be answered right now.
15 It's just something to take into account as you develop
16 your regulatory programs.

17 And just one other separate subject I wanted
18 to suggest is that in the context of workgroups that
19 operate under the PPDC, you might investigate how Codex
20 conducts its electronic working groups, which aren't
21 intended to meet in person but handle a lot of the
22 topics that Codex considers in their various committees.
23 Thank you.

24 MR. KEIGWIN: All right. Thanks, Ray. So
25 just a quick wrap-up. So with this meeting, there will

1 not be another meeting at the PPDC as part of the
2 current terms that you all have. So everybody's terms
3 expire. I think it's this summer. There are five of
4 us who are at the end of their third term.

5 And so under Federal Advisory Committee Act
6 requirements, you can't serve for a maximum -- for any
7 more than a maximum of six consecutive years without
8 some break of some kind. So I wanted to particularly
9 thank the five people who have reached the end of their
10 service to this committee as official members. And
11 those people are Pat Bishop, Eric Gjevre, Richard
12 Gragg, Donnie Taylor and Andy Whittington. So thanks
13 to the five of you for your contributions over the past
14 six years in particular.

15 We do not yet have dates for the fall meeting
16 of the PPDC. The one thing that we are striving to
17 avoid, because it has been an unfortunate tradition
18 over the last couple of years, is so the fall meeting
19 will not be over Halloween. So unless you all want to
20 dress up or something, that could be fun. But we will
21 -- we will avoid late October, early November, knowing
22 that that -- going any later than that, we start to run
23 into other situations.

24 So -- but we will keep everyone abreast of
25 that. Just a few thank-yous. Thank-yous to the

1 presenters. We had a lot of presenters, many of whom
2 were not on the committee who I think contributed
3 really effectively to helping educate all of us. So I
4 want -- I won't name all of them, to Josana Taylor
5 (phonetic) and everyone who has supported her in
6 getting the room set up and arranged. And, yes, we
7 had -- we always have some issue with the
8 teleconferencing. So, once again, we will revisit how
9 we do that and is there a more effective way to do
10 that.

11 Thank you to Paula Thomas and the staff of the
12 EPA travel center who for several of you are involved
13 in working with you all to help get you here. They put
14 in yeoman duty while they're also making travel
15 arrangements for us. But we're very fortunate -- we're
16 one of the few offices that actually has a dedicated
17 travel center. And so it really helps to have them.
18 They do a phenomenal job. And I just want to thank
19 them.

20 And then I also want to thank Shannon, who has
21 been working tirelessly not only to do this but a host
22 of other things. And I want to acknowledge several of
23 the feedback that you all did have earlier today. I
24 think some of the improvements that we have made are as
25 a result of Shannon and her efforts to share

1 information more with you all and keep you all abreast
2 of what is happening. So special thanks to Shannon for
3 all of your work.

4 And then finally thanks to all of you. I know
5 that this is -- it's not just the day-and-a-half that
6 you're here, it's getting here, it's getting back home,
7 it's carving out time from the myriad of other things
8 that you're doing. And so it is very important to us
9 that you are able to make that effort; that you're
10 willing to make that effort. And so just our
11 appreciation for the time that you are able to spend
12 with us over a couple of days a couple times a year.

13 So, with that, I will close this meeting.
14 Thank you all again. Thank you all for your feedback
15 throughout the two days, particularly this morning.
16 And we will be back in touch. Thank you all.

17 (The meeting was concluded.)
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