

1 U.S. ENVIRONMENTAL PROTECTION AGENCY

2

3 PESTICIDE PROGRAM DIALOGUE COMMITTEE MEETING

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6

7 Wednesday, May 20, 2020

8

10:00 a.m.

9

DAY ONE

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PPDC MEMBERS

1
2 Walter Alarcon
3 Ruben Arroyo
4 Amy Asmus
5 Manojit Basu
6 Steven Bennett
7 Carol Ramsey Black
8 Jasmine Brown
9 Lori Ann Burd
10 Douglas Burkett
11 Iris Figueroa
12 Jim Fredericks
13 Joseph Grzywacz
14 Gary Halvorson
15 Gina Hilton
16 Komal Jain
17 Mark Johnson
18 Patrick Johnson
19 Richard Keigwin (Chair)
20 Sheryl Kunickis
21 Daniel Kunkel
22 Dominic LaJoie
23 Charlotte Liang
24 Amy Liebman
25 Aaron Lloyd

1 PARTICIPANTS (Continued)

2 Lauren Lurkins

3 Tim Lust

4 Daniel Markowski

5 Gary Prescher

6 Caleb Ragland

7 Damon Reabe

8 Karen Reardon

9 Charlotte Sanson

10 David Shaw

11 Christina Stucker-Gassi

12 Mily Trevino-Sauceda

13 Cathy Tortorici

14 Liza Fleeson Trossbach

15 Tim Tucker

16 Edward Wakem

17 Nina Wilson

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I N D E X

1		
2		
3	Agenda Item:	Page:
4	Welcome and Opening Remarks,	
5	Alexandra Dapolito Dunn, Esq., Assistant	
6	Administrator, Office of Chemical Safety	
7	and Pollution Prevention	5
8		
9	Introductions by PPDC Members	24
10		
11	COVID-19: OPP Activities	
12	Rick Keigwin, Director, Office of	
13	Pesticide Programs	43
14		
15	PPDC's Emergency Preparedness and Action Plan	
16	Arnold Layne, Deputy Office Director,	
17	Office of Pesticide Programs	
18	Susan Jennings, Senior Advisor for Public	
19	Health, Office of Pesticide Programs	88
20		
21	Emerging Technologies	
22	Ed Messina, Esq., Deputy Office Director,	
23	Office of Pesticide Programs	109
24		
25	Public Comments	161

1 P R O C E E D I N G S

2 DAY ONE - MAY 20, 2020

3 MS. DUNN: Okay. Y'all can hear me okay?

4 Okay, great. Well, good morning, everyone, and thank
5 you so much for joining us for what may be the first
6 ever virtual meeting of the PPDC in the Committee's
7 lengthy and distinguished history. So, so glad to
8 have all of you here, and I wish it was a two-way
9 camera so that I could see the faces of the folks that
10 I'm talking to, but I know we have a very, very good
11 attendance.

12 For those of you who don't know me, I'm Alex
13 Dunn. I'm the Assistant Administrator for EPA's
14 Office of Chemical Safety and Pollution Prevention,
15 and I'm really, again, delighted to -- hello? --
16 really again delighted to open today's meeting and to
17 first off thank all members of the PPDC, those who are
18 returning and also those who are new. We have 21 new
19 committee members, and let me tell you, there was just
20 a lot of interest in expanding and adding new
21 perspectives to this group. And I just can't tell you
22 how thrilled we are to see all of you with us on this
23 webinar. It is super exciting.

24 So in terms of the new members, I was
25 wrestling with whether or not to call everyone out --

1 because there's 21 of you -- but I'm going to anyway
2 welcome Ruben Arroyo from Riverside County Department
3 of Agriculture and Measurement Standards; Carol Black
4 from Washington State University; Jasmine Brown from
5 the Confederated Salish and Kootenai Tribes, Division
6 of Environmental Protection; Douglas Burkett from the
7 Armed Forces Pest Management Board, Operations
8 Division; Joseph Grzywacz -- I hope I said that right
9 -- Florida State University, Department of Family and
10 Child Sciences; Gary Halvorson from the Council of
11 Producers and Distributors of Agrotechnology; Gina
12 Hilton from the PETA Science Consortium; Mark Johnson
13 from the Golf Course Superintendents Association of
14 America; Patrick Johnson, the owner/operator of
15 Cypress Brake Planting Company; Aaron Lloyd from the
16 Lee County Mosquito Control District; Lauren Lurkins
17 from the Illinois Farm Bureau; Tim Lust from the
18 National Sorghum Producers; Basu Manojit [sic] from
19 CropLife America; Danielle Markowski -- I'm sorry,
20 Daniel Markowski from the Vector Disease Control
21 International; Gary Prescher from the National Corn
22 Growers Association; Caleb Ragland from the American
23 Soybean Association; Karen Reardon from RISE,
24 Responsible Industry for a Sound Environment; David
25 Shaw -- Dr. David Shaw -- Mississippi State

1 University; Christina Stucker-Gassi from the Northwest
2 Center for Alternative Pesticides; Cathy Tortorici
3 from NOAA's (inaudible), Office of Protected
4 Resources; and Mily Trevino-Sauceda from Alianza
5 Nacional de Campesinas, Inc.

6 And for anyone whose name I really didn't say
7 very well, please forgive me. I decided to try that
8 spontaneously. The staff would have typically given
9 me some phonetic pronunciations to make sure I didn't
10 do that, so all the pronunciation errors are
11 completely on me, so my apologies.

12 I wanted to say that this Committee is in its
13 25th year now, and it is a very, very important forum
14 for the agency to collect perspectives and feedback
15 and diverse insights on pesticide policies. Our
16 agenda today is really packed with a whole bunch of
17 great sessions. Of course, we want to talk about our
18 response to COVID-19, but, also, we want to talk about
19 our larger role in public health emergencies and how
20 these recommendations have influenced our response to
21 COVID-19 and additional work that can be done to
22 improve our work on future emergencies, knowing that
23 there will be more like this.

24 We also have some great sessions on emerging
25 agricultural technologies and how to use risk

1 assessments in ways that are different from current
2 agricultural methods. We have a session on the
3 methods that the Office of Pesticide Programs uses to
4 perform human health and ecological risk assessments,
5 a variety of updates, which are always important to
6 let you know where we are on different important
7 matters, and finally a session to discuss workgroups.

8 And so I know you all are going to be
9 extremely busy, and I just again am providing some
10 opening remarks that I hope are helpful. First off, I
11 want to say happy birthday to the agency. It's the
12 agency's 50th anniversary this year, and we're
13 spending all of the year acknowledging the progress
14 that we've made in a clean and healthy environment.
15 And thank you to all of you for your role as partners
16 in the journey of EPA over the years.

17 I also would like to take a moment now and to
18 say that at our 50th anniversary, there has never been
19 a moment that I think we've been able to be so proud
20 of the progress and accomplishments and dedication of
21 our staff as we see with the response to COVID-19. We
22 are really seeing our folks at their best. We have
23 been open for business the entire time. In fact, many
24 of us have said that we've worked harder during the
25 COVID remote work than we've worked before, and I

1 think it's because we no longer have commuting time.
2 We just get a few more hours to work, but that's good.
3 We've had a lot to do. And with our staff largely
4 teleworking, we are still full agenda. And we are
5 really, really pleased to be delivering on List N,
6 which you'll hear about, I hope, today.

7 Since we began, we have been adding products
8 to a list called List N, which is now one of the most
9 searched features in the EPA website. List N is our
10 list of products that we know will be effective
11 against the SARS-CoV-2 virus, which is the virus that
12 causes COVID-19. We are using a hierarchy of
13 disinfection, so the products that have been added to
14 List N are products that we know can be effective
15 against viruses that are harder to kill than SARS-CoV-
16 2.

17 And so, for that reason, we now have over 400
18 products that are available on List N, and we recently
19 announced a web tool that allows anyone to, on their
20 phone, just search while you're in the store, EPA List
21 N, and you can sort by product time, contact time,
22 type of surface you're trying to disinfect, whether
23 it's a hard surface or soft surface.

24 You can even search by active ingredient if
25 there are certain ingredients that people feel they

1 don't want to use in their home or place of business
2 for various reasons. I did a search for disinfectants
3 with the active ingredient of citric acid and a
4 contact time of five minutes and was able to get five
5 qualifying products. So we're really, really proud of
6 the work that we've done in a nimble fashion around
7 the COVID response.

8 We've also been working -- the Administrator
9 has made it a priority -- to ensure that fraudulent
10 products around disinfection are kept out of the U.S.
11 marketplace through our Office of Enforcement, in
12 partnership with the Office of Pesticide Programs, as
13 well as state and local and federal law enforcement.
14 We have been able to remove many products from third-
15 party marketplaces, online forums, where people can
16 shop. We've also stopped products at the border from
17 coming in. And these products, we really want to make
18 sure that the American public is -- has access to EPA-
19 registered and effective products and that fraudulent
20 products are not put out for the public.

21 So any product that's offered for sale that
22 is not registered with the EPA and that falsely touts
23 its antiviral, antibacterial disinfection or
24 sterilizing or sanitizing effectiveness against the
25 novel coronavirus is an illegal product. And we are

1 doing what we can to prevent this from happening.

2 Let me just give you a few more updates, and
3 then I will also be happy to answer questions.

4 Hopefully you'll have some time. We are continuing to
5 do our regular, non-COVID work. As you know, we're
6 continuing with our pesticide re-registration. We are
7 well on pace to complete the registrations of 725
8 active ingredients by October of 2022. This fiscal
9 year, which ends in September, 30th, we expect to
10 issue 80 draft risk assessments, 80 proposed interim
11 decisions, and 110 interim registration review
12 decisions. That's quite a level of productivity. We
13 are focusing a lot this year on our rodenticide, our
14 pyrethroids, and the neonicotinoids.

15 I also wanted to talk to you all a little bit
16 about dicamba. We know that dicamba is one of the hot
17 topics in agricultural pest control. And, of course,
18 you know that we are up for our registration review
19 decision, expires -- our two-year decision expires at
20 the end of 2020, so we are working now to go over data
21 and to work with registrants and the academic
22 community, as well as with our states, to gather all
23 the information that we can gather from the 2018 and
24 2019 growing season so that we can make some decisions
25 and provide the marketplace with certainty around the

1 availability of dicamba and under what conditions it
2 can be used in the 2021 growing season. So that
3 certainty is important, and we're moving quickly with
4 the goal of issuing a decision around October.

5 Another big accomplishment that you'll hear
6 about that we are really proud of is the fact that
7 five federal agencies came together and in February --
8 was it only February? It was actually March. In
9 March, we issued new ESA, Endangered Species Act,
10 methodologies to assess the impact of pesticide
11 applications on endangered species -- flora, fauna,
12 and so forth.

13 We are now -- we did not just issue these
14 methods, but we also showed you how they would work by
15 putting out for public comment simultaneously the
16 application of those methods to methomyl and carbaryl,
17 and then -- those are two insecticides -- and then
18 later this summer, we'll be applying those methods to
19 four herbicides. So it's one thing to describe what
20 we're going to do; it's another thing to actually show
21 you how it works in practice.

22 And so we're very, very pleased that our team
23 came together to demonstrate how these methods would
24 work so that it's not a hypothetical but a real
25 situation, and we're accepting comments now. We've

1 extended the comment period because these are
2 complicated issues and we were asked for some
3 additional time. We were happy to be able to grant
4 that. So it's going to be a very, very busy summer.
5 The comments are now due July 2nd.

6 And then let me just take a few more moments
7 to -- if you'll indulge me -- I just wanted to touch
8 base on pollinators. Pollinators remains a very
9 important topic for us at the agency. The
10 Administrator is quite passionate about our pollinator
11 work. We are doing pollinator webinars that have been
12 moving through. We've issued the first, and we'll be
13 doing a few more. We'll also be doing a pollinator
14 conference with USDA in the fall that we've now
15 transitioned to a virtual conference.

16 And also wanted to let you know that we're
17 working with states and tribes on pollinator-
18 protection plans that are very, very important. I
19 think my webcam stopped, so I'm going to hit it again
20 here.

21 Okay, I'm back. Also, new approach methods
22 for reducing animal testing. This is very important
23 for EPA. We -- again, an Administrator priority to
24 reduce the number of animals that are impacted by our
25 testing on -- for pesticides. And we want to be able

1 to replace these animal testing methods with equally
2 reliable and effective alternative or new approach
3 methods. So pretty soon you'll be seeing from us a
4 work plan that will implement the Administrator's memo
5 from September of last year around animal testing and
6 reduction of animal testing.

7 We also continue to do work with partners
8 such as PETA and the Physicians Committee for
9 Responsible Medicine. And so look for more from us
10 around the reduction of animal testing as we proceed
11 towards the Administrator's goal of elimination of
12 this type of testing by 2035, which is a very bold
13 goal; however, we want to do it thoughtfully and
14 incrementally. And the work plan that you'll see in a
15 few weeks will give you a sense of some of our interim
16 milestones toward that goal.

17 So the final topic that I'd like to talk
18 about are biotechnology. As you know, just last week,
19 the U.S. Department of Agriculture issued its SECURE
20 rule, which is a rule for bio-engineered products that
21 USDA has jurisdiction over. USDA is comfortable with
22 these products and them entering into commerce.

23 To that end, EPA, under the President's
24 executive order on biotech, is also working on a
25 proposed regulation around biotech-engineered PIPs,

1 plant-incorporated protectants. And we hope to issue
2 our rule this summer as a proposal, and we look
3 forward to a lot of input on that rule. It's a very
4 lively topic, but I encourage you to take a look at
5 the unified USDA/EPA/FDA website on biotech that was
6 launched January of this year. And it's a one-stop
7 shop for actions taken by the Federal Government on
8 biotech. It's quite a key accomplishment for these
9 agencies to work together.

10 And I think, you know, as I wrap up here,
11 and, again, thank you for letting me welcome you to
12 our virtual meeting, and thank you to the new members,
13 thank you to the returning members, what I hope you're
14 hearing from all of these remarks is a theme, a theme
15 of partnership, as you see this partnership, and with
16 the animal testing and with the ESA and also with
17 biotech, partnership across the federal family,
18 partnership across the regulated community,
19 partnership with stakeholders, partnership with our
20 state agencies. Really everything that EPA is doing
21 in the pesticide program right now is characterized by
22 partnership. Even our COVID work is in partnership
23 with our Office of Research and Development and the
24 Centers for Disease Control and obviously the White
25 House Coronavirus Task Force.

1 So right now, EPA, I think, is so well and
2 highly connected with the communities of stakeholders
3 -- federal and others -- and we are just well
4 positioned to leverage these relationships. And the
5 partnership includes all of you on the PPDC. You are
6 a critical set of partners. You represent
7 organizations and entities that we work with in many
8 ways. But collectively as the PPDC, you are also an
9 entity that's very important to us.

10 And so I thank you, welcome you, and turn it
11 back to Shannon. And if there is time, I'm happy to
12 answer a few questions. If there's not, I'll let you
13 all get to your agenda.

14 MS. JEWELL: Thanks so much, Alex. I will
15 actually turn it over to Rick at this point, but I do
16 think we should be timely, so I think we should
17 probably go ahead and move on. Thank you so much for
18 your introduction.

19 MS. DUNN: Great. Bye, everyone. Thank you.

20 MS. JEWELL: Thanks, Alex.

21 MR. KEIGWIN: Good morning, everybody. This
22 is Rick Keigwin. I am the Director of the Office of
23 Pesticide Programs, and as Alex said, we are very
24 appreciative of your time and your willingness to
25 commit to providing us with your input and feedback as

1 we work to continue to advance our mission of
2 protecting public health and the environment.

3 Before we dive into the agenda, I want to
4 give Carrie Meadows an opportunity to introduce
5 herself. Carrie joined us actually in the midst of
6 the public health emergency and has joined the agency
7 recently as the new agricultural advisor to the
8 Administrator. I think Carrie's webcam is up and
9 running, so, Carrie, let me let you take it away.

10 You may be muted, Carrie.

11 MS. JEWELL: You're still muted, Carrie, so
12 just give us a second while we try to unmute.

13 (Brief pause.)

14 MS. MEADOWS: Well, I will be very brief
15 since my technical difficulties put us over time, but
16 I want to thank Rick for inviting me to be on the call
17 today. As he noted, I have started in the midst of
18 the work-from-home and stay-at-home, so I have not
19 actually gotten to meet a lot of my coworkers in
20 person, but I appreciate an opportunity like this to
21 speak to you all.

22 As Rick noted, I am the new ag advisor to
23 Administrator Wheeler, and the role of the
24 agricultural advisor's office is to act as a primary
25 advocate and liaison for U.S. agriculture at EPA. We

1 have an ag advisor's office at Headquarters, along
2 with one at each of EPA's 10 regional offices, and we
3 also advise the agency on agricultural perspectives
4 (inaudible) relative rulemaking, policies and
5 activities. We also work regularly with various
6 offices within the White House, our relevant sister
7 agencies, state agencies, producers, and agricultural
8 stakeholders.

9 The discussion of the Pesticide Program
10 Dialogue Committee will be of great interest to the
11 agricultural community, and I look forward to
12 following the discussions and the work of the
13 Committee. The Ag Advisor's Office works closely with
14 Alex and Rick and the Office of Pesticides as
15 (inaudible) protection tools and other issues that are
16 of great importance to agriculture and Rural America.

17 Agriculture is a top priority at EPA, and I
18 view meeting with agricultural producers in rural
19 communities and stakeholders such as yourself as
20 critical for keeping the lines of communication open
21 and (inaudible) Americans on issues that impact
22 everyday life.

23 Once we get back to normal, I hope to meet my
24 coworkers and all of you soon in person and meet with
25 you all at EPA or around the country. And I hope that

1 I can be a resource. If you guys ever need anything
2 with me, feel free to reach out to me. And, again, I
3 really look forward -- and Alex said, you guys are a
4 valuable group of stakeholders, and I very much look
5 forward to working with you more. But thank you for
6 inviting me to be here today, Rick.

7 MR. KEIGWIN: Carrie, thanks for taking some
8 time of your very busy day to join us. We do
9 appreciate it.

10 So I just want to give everyone a couple of
11 updates on some changes in OPC since we last met. I
12 should probably start my webcam. So good morning,
13 everybody. We've had a couple of changes. Ed
14 Messina, who is on the line with us and will be
15 participating and presenting one of our sessions later
16 today, continues as our Deputy Office Director for
17 Programs. And Arnold Layne has returned to the Office
18 of Pesticide Programs as the Management Deputy Office
19 Director after a year-long stint in another part of
20 EPA, and we're so happy to have him back with us in
21 the Office of Pesticide Programs.

22 Within the nine divisions, we've had a number
23 of movements around as we continue to build some
24 redundancy into the program, as well as provide people
25 with some developmental opportunities and some

1 succession planning building for the Office. Steve
2 Weiss is now the Deputy Division Director of our
3 Antimicrobial Division. Kimberly Nesci is now the
4 Acting Director of our Biological and Economic
5 Analysis Division. Anne Overstreet is now the Deputy
6 Director of the Biopesticide and Pollution Prevention
7 Division. Don Wilber is now the Deputy Division
8 Director of the Health Effects Division. And Greg
9 Ackerman is now the Acting Associate Director of the
10 Health Effects Division.

11 Jan Matuszko is now the Deputy Director of
12 the Environmental Fate and Effects Division. Elissa
13 Reaves is now the Acting Director of the Pesticide
14 Reevaluation Division. And Catherine Aubee is now the
15 Acting Associate Director in the Registration
16 Division. So if there's one thing that's constant
17 within the Office of Pesticide Programs it's that we
18 move around our people as we continue to build our
19 (inaudible) team.

20 A number of the opportunities became
21 available due to retirements or movement to other
22 offices over the course of the past year, most notably
23 Wynne Miller, who had been serving as Director of the
24 Biological and Economic Analysis Division, and also
25 spent about a year as Deputy Officer for Management,

1 has moved to the Office of Water as a Deputy Director
2 of the Office of Wastewater Management. And Donna
3 Davis, who had been the Associate Director of the
4 Registration Division, retired near the end of last
5 year.

6 So I want to welcome the new members. Nearly
7 half of our Committee is new. I also want to welcome
8 back our veterans and really appreciate your
9 willingness to continue to devote time to collaborate
10 with us on our activities. We strive to have very
11 diverse viewpoints represented on the Committee, and
12 we truly appreciate the robust conversations that
13 we've had in the past and I know that we'll continue
14 to have in the future.

15 OPP's goal for this meeting is to share
16 information and background with the group, have
17 productive conversations, and receive your input on
18 future directions for activities and policies of the
19 Office of Pesticide Programs.

20 So I want to take an opportunity right now to
21 first review the agenda for the next two days. Alex
22 did a high-level overview, and I just want to spend a
23 little bit of additional time. So we'll first start
24 with an overview of the COVID-related work that OPP
25 has been doing over the last couple of months, and

1 then we'll have some time to discuss and get some
2 feedback and reactions to that work and other areas
3 that you all think that we should continue to explore
4 in that area.

5 Then our next session will be -- for many of
6 you, it will be a refresher, but for many of you, it
7 will be new. At the last PPDC meeting, the Public
8 Health Workgroup had brought forward a plan or a
9 construct of how we should -- could respond in public
10 health emergencies, and now that we happen to be in
11 one -- there, now, I think you can hear me -- it's
12 good to kind of look at that plan in the midst of an
13 emergency and see what changes might need to be made.

14 And then we'll end the session with -- for
15 today -- with a overview of some emerging
16 technologies. And then we will have a public comment
17 session at the end of the day. And then we'll be sure
18 to take breaks during the day as well because I know
19 being on a webinar for many hours we need to take some
20 breaks.

21 Tomorrow, we will do -- provide you all with
22 an overview of our risk assessment approaches from
23 both human health and ecological risk assessments.
24 And then you should have all received some updates on
25 a variety of topics, and what we will do is we're not

1 going to go through each one of those, but we will see
2 if there -- if members have reactions to any of those.
3 And then we have representatives from the respective
4 divisions who will be available to answer questions on
5 those updates.

6 And then the last substantive discussion we
7 will have tomorrow afternoon will be how do we want to
8 organize ourselves for the next year and a half, what
9 workgroups do we want to form, you know, based upon
10 the presentations that we will have heard over those
11 prior two days or based upon your all's previous
12 interactions with the Office of Pesticide Programs or
13 directions that you think OPP should be taking in the
14 future. And then, again, we will end with a public
15 comment session.

16 A couple of housekeeping matters. As I
17 mentioned, there will be a 15-minute public comment
18 session at the end of each day. If you are a member
19 of the public and would like to make a comment, please
20 email Shannon Jewell. Her email is jewell, J E W E L
21 L.Shannon@epa.gov. Her address is also in the lobby
22 area of this meeting in Adobe Connect, which will be
23 shown during the breaks. And then once we call on
24 you, we'll ask you to state your name and affiliation
25 and limit your comments to two to three minutes. And

1 we'll go over that again at the beginning of each
2 public comment session.

3 Just a reminder that public participants, to
4 listen in, should do so through their computer audio,
5 which will remain muted. If you are a member of the
6 public and you're using the conference line, we would
7 ask that you please hang up and turn your computer
8 speakers on and use your computer audio to listen in
9 on this meeting. We'd like to reserve the conference
10 line for members of the Committee.

11 For our Committee members, remember to mute
12 your line when you're not speaking. We will sometimes
13 mute the phones. Please don't unmute except when we
14 ask you to. At any point if you'd like to make --
15 signal that you'd like to make a comment, we'd ask
16 that you type your name into the presenter chat box
17 that members of the Committee should be able to see --
18 it's the second box down on the right-hand side of the
19 screen -- and to please make sure that your computer
20 microphone and speakers are muted so that we don't get
21 feedback.

22 And so with that, why don't we do
23 introductions. Normally, we would kind of go around
24 the horn, but so that we're not kind of jumping in on
25 each other, I thought what I would do is work through

1 the roster based upon organizational perspective type
2 and call on people and then they can just make a
3 couple of remarks. So with that, I'm going to start
4 with the user/grower groups/farmer representative
5 perspective. Amy Asmus.

6 MS. ASMUS: Can you hear me?

7 MR. KEIGWIN: Yes.

8 MS. ASMUS: This is Amy Asmus. I'm with
9 Asmus Farm Supply. I was nominated to represent the
10 Weed Science Society on PPDC. I am a returning
11 member. This will be my second go-round, and I'm
12 proud to be back. Thanks.

13 MR. KEIGWIN: Thanks, Amy.

14 Jim Fredericks.

15 MR. FREDERICKS: Thanks, Rick. Jim here. By
16 way of background, I'm the Vice President of
17 Regulatory Affairs with the National Pest Management
18 Association. I'm proud to be returning to the
19 Committee. For those of you that don't know, NPMA is
20 a trade association that represents pest control
21 companies and the approximately 150,000 technicians
22 that work every day to protect homes, businesses
23 across the country from harmful pests.

24 We also work to educate consumers about pests
25 and the threats that they pose to people, public

1 health, property, and food. I'm happy to be back on
2 the Committee and look forward to working with you
3 all.

4 MR. KEIGWIN: Thanks, Jim.
5 Mark Johnson.

6 MR. M. JOHNSON: Good morning. This is Mark
7 Johnson. I'm with the Golf Course Superintendents
8 Association of America. Our headquarters is in
9 Lawrence, Kansas. I'm the Associate Director of
10 Environmental Programs and happy to be here today.
11 Thank you.

12 MR. KEIGWIN: Thanks, Mark. Welcome.
13 Patrick Johnson.

14 MR. P. JOHNSON: I'm -- can you all hear me
15 now?

16 MR. KEIGWIN: Yes.

17 MR. P. JOHNSON: Okay. I'm Patrick Johnson.
18 I'm a farmer in Tunica, Mississippi. I'm representing
19 the National Cotton Council. We grow cotton, corn,
20 rice, and soybeans here, and I'm new to the Committee,
21 so I look forward to learning more about how it
22 functions and participating. Thank you.

23 MR. KEIGWIN: Thank you.

24 The next person I have is Dominic LaJoie, but
25 I don't know if he was able to join us yet. Dominic,

1 have you been able to connect with us?

2 (No response.)

3 MR. KEIGWIN: Those of you haven't met
4 Dominic, he is with the National Potato Council, and
5 he is a potato grower in Northern Maine.

6 Lauren Lurkins.

7 MS. LURKINS: Hi. Can you hear me?

8 MR. KEIGWIN: Yes.

9 MS. LURKINS: All right. My name is Lauren
10 Lurkins. I am the representative on the council for
11 the American Farm Bureau but I'm actually the Director
12 of Environmental Policy for Illinois Farm Bureau. I'm
13 located in Bloomington, Illinois, in the center part
14 of the state and also the country, and I spend my time
15 at Illinois Farm Bureau working with both our federal
16 and state agencies on various environmental issues,
17 including pesticide use. And I also spend a great
18 deal of time with our farmer members.

19 In Illinois, we have almost 80,000 individual
20 farmer members, and we help explain a lot of the
21 regulatory world in which they can use pesticides. So
22 I am new to the Committee and I appreciate the
23 opportunity.

24 MR. KEIGWIN: Welcome, Lauren.

25 Tim Lust.

1 MR. LUST: Yes, Tim Lust, represent the
2 National Sorghum Producers and new to the Committee
3 and happy to be on it.

4 MR. KEIGWIN: Thanks, Tim.
5 Gary Prescher.

6 MR. PRESCHER: Yes, good morning. Hello,
7 everyone. I am representing the National Corn Growers
8 Association. I'm a new member located in South
9 Central Minnesota, living on the family homestead
10 here, looking forward to the sharing of information
11 and ideas and appreciate the opportunity.

12 MR. KEIGWIN: Welcome, Gary.
13 Caleb Ragland.

14 MR. RAGLAND: Yes, this is Caleb Ragland.
15 I'm from Magnolia, Kentucky. I represent the American
16 Soybean Association and I'm a National Director. I
17 also serve on the Kentucky Soybean Association Board.
18 We farm in Central Kentucky, raise soybeans, corn,
19 winter wheat, and pigs. I'm excited to serve with you
20 all. Thank you.

21 MR. KEIGWIN: Thanks, Caleb. Welcome back.

22 NINA: Hi, I'm sorry, did you say Nina?

23 MR. KEIGWIN: I said Damon. Is Damon able to
24 join us?

25 (No response.)

1 MR. KEIGWIN: Damon is with the National
2 Agricultural Aviation Association.

3 And Tim Tucker. Was Tim able to join?

4 MR. REABE: Rick, it's Damon. Can you hear
5 me now?

6 MR. KEIGWIN: I can, Damon, hi. Good
7 morning.

8 DAMON REABE: Damon Reabe, aerial applicator
9 from Wisconsin. We protect field vegetable/fruit
10 crops, fertilize crops here in Wisconsin, as well as
11 plant cover crops. I'm representing the National
12 Agricultural Aviation Association. And I'm in my
13 second term. I'm looking forward to this.

14 MR. KEIGWIN: Thanks.

15 And let me just check again to see if Tim
16 Tucker has been able to join us.

17 (No response.)

18 MR. KEIGWIN: Tim is with the American
19 Beekeeping Federation and the American Honey Producers
20 Association.

21 Let's move on to the environmental/public
22 interest and animal welfare group perspectives. We'll
23 start with Lori Ann Burd.

24 MS. BURD: Hi, everyone. My name is Lori Ann
25 Burd. I am with the Center for Biological Diversity

1 where I am the Director of the Environmental Health
2 Program and a senior attorney. At the Center, we
3 recognize that the fate of humans and all species are
4 intertwined and that all species have an intrinsic
5 value and the right not to be driven to extinction.
6 My work focuses on protecting all species from toxic
7 poisons, including pesticides. And I am here to
8 advocate for vulnerable humans, plants, and animals
9 harmed by pesticides.

10 MR. KEIGWIN: Thanks, Lori Ann. Welcome
11 back.

12 Gina Hilton.

13 MS. HILTON: Hi, good morning. My name is
14 Dr. Gina Hilton and I am a toxicologist working for
15 PETA, so the People for the Ethical Treatment of
16 Animals, and I collaborate with international
17 regulatory agencies on projects that are focused on
18 the development and validation of non-animal test
19 methods, so methods such as in silico and in vitro
20 assays specifically to support agrochemical risk
21 assessment.

22 And I'm new to this Committee. Thank you for
23 the opportunity to serve, and I look forward to
24 hearing more about various projects.

25 MR. KEIGWIN: Thanks, Gina. Welcome aboard.

1 David Shaw.

2 MR. SHAW: Good morning. This is David Shaw,
3 and I'm at Mississippi State University. I'm the past
4 chair of the Herbicide Resistance Education Committee
5 for the Weed Science Society of America. That
6 committee, for a number of years, has been working
7 with a number of stakeholder groups to be able to
8 develop educational resources and a collaborative
9 environment to be able to have stakeholder groups
10 working together to address this very difficult
11 problem.

12 We particularly had been working across the
13 spectrum with EPA and OPP specifically, as well as
14 USDA agencies, nongovernmental organizations,
15 industry, growers, academia, and other groups to be
16 able to address these very difficult problems.

17 MR. KEIGWIN: Thanks, David.

18 Christina.

19 MS. STUCKER-GASSI: Good morning, everyone.
20 My name is Christina. I'm an organic farmer here in
21 Boise, Idaho, and work with the Northwestern Center
22 for Alternatives to Pesticides, where we strive to
23 protect community environmental health and inspire the
24 use of ecologically sound solutions to reduce the use
25 of pesticides. And I am -- this is my first time and

1 was referred by my colleague, Sharon Selvaggio, who
2 served two terms. Glad to be here.

3 MR. KEIGWIN: Great to have you.

4 And Edward.

5 DR. WAKEM: Hey, good morning, Rick. Good
6 morning, everybody. I'm a veterinarian living in
7 Virginia. I am an industry technical consultant, and
8 I'm representing the American Veterinary Medical
9 Association, which is headquartered in Schaumburg,
10 Illinois. The AVMA represents about 95,000 members.

11 Veterinarians in practice use and recommend
12 many EPA-registered, host-applied pesticides to
13 protect the animals under their care, and
14 veterinarians are also involved in a wide range of One
15 Health initiatives, including environmental and
16 toxicological assessments. I'm in my second term and
17 pleased to be here. Thank you.

18 MR. KEIGWIN: Great. Great to have you back.

19 Representing the farmworker perspective, Iris
20 Figueroa.

21 MS. FIGUEROA: Good morning, everyone. My
22 name is Iris Figuera and I'm Senior Staff Attorney at
23 Farm Worker Justice, which is a national organization
24 where we advocate for the approximately two and a half
25 million farmworkers who grow our food and in doing so

1 face an increased risk of pesticide exposure.

2 MR. KEIGWIN: Welcome back, Iris.

3 Amy Liebman.

4 MS. LIEBMAN: Hi, good morning. This is Amy
5 Liebman. I am the Director of Environmental and
6 Occupational Health at Migrant Clinicians Network, and
7 our organization is a national organization focused on
8 health justice for migrants and immigrants, improving
9 access to care and quality of care for migrants and
10 immigrants.

11 MR. KEIGWIN: Thanks, Amy.

12 And then Mily Trevino-Sauceda.

13 MS. TREVINO-SAUCEDA: Hi, buenos dias. Good
14 morning. Mily Trevino-Sauceda, and I am the Executive
15 Director and Cofounder of the National Alliance of
16 Farmworker Women, which is called Alianza Nacional de
17 Campesinas. We have 15 member groups in 11 states,
18 starting in California, which was one of the largest
19 agricultural areas. And I am in California and we
20 focus a lot on the environmental, the pesticide
21 issues. There has been a lot of not only injuries but
22 deaths in our communities because of that, and this is
23 why I'm here. Thank you.

24 MR. KEIGWIN: Thanks, Mily. Great to have
25 you on our Committee.

1 I'll move now to the public health
2 representative perspective. Joseph.

3 (No response.)

4 MR. KEIGWIN: I thought I saw Joseph online.
5 Joseph is with Florida State University
6 Department of Family and Child Sciences.

7 Move to Aaron Lloyd.

8 MR. LLOYD: Hello. I'm Aaron Lloyd. I'm the
9 Assistant Director at Lee County Mosquito Control
10 District in Ft. Myers, Florida. Happy to be a part of
11 the group.

12 MR. KEIGWIN: Welcome, Aaron.

13 And then Daniel Markowski.

14 MR. MARKOWSKI: Hello. This is Dan
15 Markowski. I'm here representing the American
16 Mosquito Control Association. We've been conducting
17 mosquito surveillance control operations throughout
18 the U.S. This is my inaugural PPDC meeting.

19 MR. KEIGWIN: Thanks.

20 We'll move now to the registrant perspective.
21 Mano.

22 MR. BASU: Good morning, everyone. This is
23 Manojit Basu. I'm representing CropLife America.
24 We're based in Washington, DC. I'm the manager,
25 Director of Science Policy at CropLife. We are a

1 national trade association representing manufacturers,
2 formulators, and distributors of pesticide products.
3 This is my first term on PPDC, and I appreciate the
4 opportunity to engage with all the stakeholders here.
5 Thank you, Rick.

6 MR. KEIGWIN: Thanks, Mano.

7 Steve Bennett.

8 MR. BENNETT: Good morning. This is Steve
9 Bennett with the Household and Commercial Products
10 Association. We represent a number of products in the
11 consumer space, primarily antimicrobial and
12 conventional pesticides. This is my second time on
13 the panel, and I look forward to it.

14 MR. KEIGWIN: Great, thanks, Steve.

15 We're actually going to double back to Joe,
16 who I think his phone was double-muted. So, Joseph.

17 MR. GRZYWACZ: Yeah, sorry about that. Can
18 you hear me now?

19 MR. KEIGWIN: Yes.

20 MR. GRZYWACZ: Awesome, awesome. Sorry about
21 that. Yeah, so I'm new to PPDC. I am on the faculty
22 here at Florida State University, and I've done
23 research on pesticide exposure and its potential
24 health implications now for about 20 years. Just glad
25 to be with everybody.

1 MR. KEIGWIN: Great. Thanks for joining us.
2 Gary.

3 MR. HALVORSON: Hi, this is Gary Halvorson.
4 I am President of the Council of Producers and
5 Distributors of Agrotechnology. We represent
6 companies that manufacture adjuvants and distribute
7 adjuvants to go along with pesticide application,
8 also, the inerts groups that are -- use inerts into
9 the pesticide formulations. I'm a new member and very
10 glad to be on my first term. Thanks, Rick.

11 MR. KEIGWIN: Great, Gary.
12 Komal.

13 MS. JAIN: Good morning, everyone. I'm
14 pleased to be a returning member to the PPDC. I'm the
15 Executive Director of the Center for Biocide
16 Chemistries, which fits under the umbrella of the
17 American Chemistry Council. CBC is a global trade
18 association of over 50 companies that manufacture or
19 formulate antimicrobial pesticide, also known as
20 biocides. Happy to be here today. Good to see you,
21 Rick.

22 MR. KEIGWIN: Good to see you. Glad you
23 could join us.

24 Karen Reardon.

25 MS. REARDON: Good morning. Thanks, Rick.

1 I'm Karen Reardon. I'm Vice President of Public
2 Affairs for RISE, Responsible Industry for a Sound
3 Environment, and we represent the companies that
4 supply the pesticides that are used by consumers and
5 professionals in non-agricultural settings. So I'm a
6 new member and very excited to join the group's
7 deliberations here. Thanks.

8 MR. KEIGWIN: Welcome, Karen.
9 Charlotte Sanson.

10 MS. SANSON: Thanks, Rick. Hi, good morning.
11 I'm Charlotte Sanson. I am with ADAMA. We are a
12 global crop protection company. I am based in
13 Raleigh, North Carolina, and I serve as Head of
14 Regulatory Affairs for North America with the company.
15 So this is my second term on PPDC, and I'm happy to be
16 here. I represent the registrants of the crop
17 protection industry on the conventional chemical
18 (inaudible). So thanks, Rick.

19 MR. KEIGWIN: Thanks, Charlotte.
20 And Nina Wilson.

21 MS. WILSON: Thank you, Rick. Good morning.
22 This is Nina Wilson with Gowan Company. I'm
23 representing BPIA, which is the Biological Products
24 Industry, whose members produce naturally derived or
25 their synthetic equivalent with a lower risk profile.

1 Thanks, Shannon and OPP, for arranging this
2 meeting under all these difficult circumstances, and I
3 appreciate the opportunity to be here.

4 MR. KEIGWIN: Thanks, Nina. Welcome back.

5 We'll move to our state/local/tribal
6 government perspectives. I'm not sure if Ruben Arroyo
7 has been able to join us yet. It might be later
8 today.

9 So Ruben is a county ag commissioner with the
10 Riverside County Department of Agriculture in
11 Riverside, California.

12 Carol Black.

13 MS. BLACK: Good morning from the Palouse
14 Region of Eastern Washington. It's a little rainy
15 today. We've been needing some moisture, so that's
16 always good. I work for Washington State University.
17 I'm a pesticide safety education specialist, and we
18 provide both initial certification training, as well
19 as continuing education with an emphasis on personal
20 safety, environmental protection and integrated pest
21 management. And I also represent the American
22 Association of Pesticide Safety Educators, and that's
23 going to include regulatory officials who (inaudible)
24 applicator certification, as well as university and
25 private industry that does safety education. So thank

1 you. The last time I was on PPDC was 2006 to 2009, so
2 it's good to be back in the fold.

3 MR. KEIGWIN: Glad to have you back, Carol.

4 Jasmine Brown.

5 (No response.)

6 MR. KEIGWIN: Was Jasmine able to join us
7 today?

8 (No response.)

9 MR. KEIGWIN: So I think she hasn't been able
10 to join us yet, so Jasmine represents EPA's Tribal
11 Pesticide Program Council.

12 And Liza Fleeson Trossbach.

13 MS. TROSSBACH: Good morning, Rick. Thank
14 you. This is Liza Fleeson Trossbach. I am with the
15 Virginia Department of Agriculture and Consumer
16 Services, and I am representing the Association of
17 American Pesticide Control Officials, or AAPCO. For
18 the newest members, AAPCO is a professional
19 association that is made up of the pesticide
20 regulatory officials for our states, territories,
21 provincial and federal government, both the United
22 States, the territories, of course, and Canada.

23 We work very closely with EPA to resolve
24 different challenges related to the implementation of
25 pesticide programs and also for related associations

1 who specialize in both agricultural and non-
2 agricultural aspects of pesticide programs. This is
3 my second term on PPDC, and I'm glad to be back.

4 Thank you.

5 MR. KEIGWIN: Glad to have you, Liza.

6 And then finally we'll wrap up with members
7 of our federal family. Walter Alarcon

8 (No response.)

9 MR. KEIGWIN: I see him on the list. Walter,
10 you might need to unmute your phone. He's going to
11 call back in. We'll circle back.

12 Doug Burkett.

13 MR. BURKETT: Hey, good morning, everybody.
14 I hope you can hear me okay. I'm Doug Burkett, and
15 I'm with the Armed Forces Pest Management Board and
16 part of the Office of the Secretary of Defense, and I
17 believe at least somebody from our office has been a
18 member of PPDC for many years. I'm a new member this
19 year, but we're proud to represent our organization.

20 The Armed Forces Pest Management Board at the
21 Office of the Secretary of Defense, we're kind of the
22 pesticide and pest management policy and guidance
23 organization for Defense. Over.

24 MR. KEIGWIN: Great. Happy to have you on
25 board.

1 Sheryl Kunickis.

2 MS. KUNICKIS: I represent the Secretary of
3 Agriculture on PPDC. Our office, a staff of 10,
4 represent the need for agriculture's use of pesticides
5 in all growing systems, whether it be organic,
6 conventional, biotech.

7 At this point, I also would like to thank all
8 of the work in the production and distribution of food
9 that work in our industry, particularly at this time
10 as we work through this pandemic. Really appreciate
11 all the people across the country. A lot of
12 representatives of those group that are working in the
13 field of agriculture.

14 So thank you for including me on PPDC. I
15 look forward to serving this year.

16 MR. KEIGWIN: Great, Sheryl. Welcome back.

17 Dan Kunkel.

18 MR. KUNKEL: Yeah, hi, good morning, Rick.
19 You can hear me all right?

20 MR. KEIGWIN: Yes.

21 MR. KUNKEL: Great. Thanks. And I'm
22 starting my third term, so really appreciate the
23 opportunity to serve on the Committee. I represent
24 the IR-4 project. We're a USDA-sponsored program.
25 Our headquarters is located at Rutgers University.

1 We're actually transitioning to NC State, and we
2 register plant protection products for conventional
3 and organic growers. So we're representing the
4 specialty crop growers today. Thank you.

5 MR. KEIGWIN: Thanks, Dan.

6 Charlotte Liang.

7 MS. LIANG: Thank you, Rick. Good morning,
8 everyone. My name is Charlotte Liang. I am with U.S.
9 Food and Drug Administration, Center for Food Safety
10 and Applied Nutrition, also called Food Safety. I
11 work on issues related to pesticide residues in food.
12 I'm a returning member, and I'm glad to be here.
13 Thank you.

14 MR. KEIGWIN: Great to have you, Charlotte.
15 Thank you.

16 Cathy Tortorici.

17 MS. TORTORICI: Hello. Good morning,
18 everyone. Cathy Tortorici. I work for NOAA
19 Fisheries, and I'm also representing U.S. Fish and
20 Wildlife Service. Both of our agencies work on ESA
21 Section 7 consultations, and we're working very
22 closely with EPA, USDA, and collaborating with the
23 public on pesticide consultations. And I'm very glad
24 to be here. I'm a new member and looking forward to
25 the conversation.

1 MR. KEIGWIN: Thanks for being willing to
2 join us, Cathy. We really appreciate it.

3 Let me just circle back and see if Walter
4 Alarcon has been able to rejoin us.

5 MR. ALARCON: Hello. Can you hear me?

6 MR. KEIGWIN: Yes.

7 MR. ALARCON: Thank you. This is Walter
8 Alarcon. I am a returning member. I work for the
9 Center for Disease Control and Prevention. I am the
10 Project Officer for the SENSOR Pesticides Programs. Our program
11 tracks acute pesticide irregularities and injuries that
12 happens at work, and (inaudible) with several states. I'm glad to
13 be back to support this work. Thank you.

14 MR. KEIGWIN: Great. Thank you all. So I
15 think we'll transition now into Session 1. And I
16 think Charlotte -- I mean Carla or Shannon will put up
17 the slides.

18 (Brief pause.)

19 MR. KEIGWIN: All right, thanks. So we're
20 going to kick things off -- I'll kick things off by
21 giving you all an overview of the work that the Office
22 of Pesticide Programs has been doing over the last
23 four months at this point in helping to contribute to
24 the Federal Government's response to the COVID-19
25 public health emergency. Next slide.

1 And what I'm going to cover are activities in
2 three areas. The first is to provide you all with an
3 overview of our emerging viral pathogen policy, which
4 has really been the starting point for the work that
5 we've been doing in terms of making information
6 available to the public about which registered
7 disinfectants are effective against the SARS-CoV-2
8 virus.

9 Then we'll talk about the work that we've
10 been doing, as Alex talked about, with the creation of
11 List N. The third area that I'll cover are some
12 temporary changes to our registration requirements
13 that we have made to respond to changes in the supply
14 chain that has been occurring. And then I'll wrap up
15 with providing you all with an overview of some work
16 that we're beginning to do at our microbiology
17 laboratory in Fort Meade, Maryland, to stand up a
18 human coronavirus efficacy testing program. Next
19 slide.

20 So our emerging viral pathogens policy was
21 triggered in January of this year when the CDC
22 declared the public health emergency. We actually
23 created the emerging viral pathogens policy about four
24 or five years ago in the aftermath of the Government's
25 response to Ebola. And what we wanted to be better

1 positioned to do was to provide information to the
2 public and prequalify disinfectants to make claims for
3 efficacy against emerging viral pathogens.

4 But what this policy and guidance says, it
5 essentially sets up a two-step process to enable
6 registrants to add emerging viral pathogen claims to
7 the label, which would be for pathogenic pests that
8 are not currently identified on the label but allows
9 subsequent to the implementation of this guidance for
10 any specific public health emergency to begin to make
11 off-label claims for a new emerging micro-organism
12 such as SARS-CoV-2. And the basis for this policy is
13 that they can make these claims subsequent to an EPA
14 review if they have suitable data to demonstrate that
15 their product is effective against a harder-to-kill
16 virus. Next slide.

17 So how the guidance works is it's a two-stage
18 policy. Prior to an emergency being declared,
19 registrants with an eligible disinfectant product can
20 submit a request to EPA to add a claim for an emerging
21 viral pathogen designation to their label. We
22 evaluate efficacy data, evaluate the rationale that
23 they have provided, essentially a bridging argument,
24 and then if we are in agreement with those data, we
25 approve the amendment to the registration. And it

1 also includes terms and conditions of registration for
2 when they can begin to make the emerging viral
3 pathogen claim in their product marketing.

4 The second stage is at the time that the
5 guidance is triggered, and so once the guidance is
6 triggered in response to a human or animal disease
7 outbreak, it's at that point that the registrants who
8 have already been pre-approved to make emerging viral
9 pathogen claims can begin to make off-label
10 communications available that their product can be
11 used against that specific emerging virus. So until
12 the guidance is triggered, they're not able to make
13 those claims. They can only make those claims once
14 the guidance is triggered. Next slide.

15 And I won't go through this in detail.
16 There's a link in the materials to the full guidance
17 document, but this slide just outlines the types of
18 criteria that are required for a product to be
19 eligible for consideration under the emerging viral
20 pathogens policy and the types of data that -- and the
21 organisms -- that the registrant needs to provide in
22 order to report a potential emerging -- addition of an
23 emerging viral pathogen claim to a registration.

24 Now, what I talked about was how we do this
25 prior to an outbreak. We have also allowed companies

1 since implementation of the guidance for in this
2 particular public health emergency to come in
3 subsequent to the initiation of the policy to also
4 seek to add the emerging viral pathogen claim to their
5 labels. And those have been being processed in about
6 a three- to four-week, on average, time frame,
7 presuming that we receive a complete application and
8 the materials that the registrant has submitted
9 support adding the emerging viral pathogens claim to
10 their labels. Next slide.

11 So when the guidance was first triggered at
12 the end of January, we initially had about 40 to 50
13 products that qualified for -- to make claims against
14 SARS-CoV2. You might wonder why it's called List N,
15 and that is because there are lists A through M that
16 have been put together over the years, and some of
17 these lists include products that are efficacious
18 against avian flu or Ebola or other types of
19 pathogenic organisms, with N just happened to be the
20 next list that was created.

21 We are now at over 400 products that are on
22 this list, so the work in Antimicrobials Division,
23 which has really been supported by virtually every
24 division in the Office of Pesticide Programs, either
25 from a product review standpoint or a labeling

1 standpoint or helping with communication or responding
2 to stakeholder and public and registrant inquiries,
3 it's really been that old adage, it takes a village.
4 It's taken a village to move that work along.

5 So we're now at over 400 products. We've
6 been updating the list on a weekly basis so that
7 information is available to the public in real time.
8 And Alex hinted at this as well, but we've also been
9 getting kind of web analytical statistics, and this is
10 the most hit list of -- or site of any EPA's sites, I
11 think for the last two and a half months running. So
12 it's a very popular list and has been a usual resource
13 for a lot of people as they look to find products to
14 use in this current emergency.

15 We have also been adding frequently asked
16 questions to our website to help guide people through
17 the list, what it represents and what it doesn't
18 represent. And similarly, as we update the list on a
19 weekly basis, we've been adding additional frequently
20 asked questions to help consumers understand how to
21 utilize the list and what it represents.

22 And then most recently we added information
23 for registrants on how to submit applications for
24 consideration for prioritized or expedited review.
25 These are products that we are -- could also be useful

1 in the response effort. What we're doing is they go
2 to the top of the review queue. All of the data are
3 required for registration still must be submitted.

4 They go through the same review process as
5 any other product would. We just have a team of
6 people across the program and with some support from
7 others across the agency to help move these
8 applications through the process in a swifter, more
9 authoritative manner. Our estimate is that our
10 goal certainly is to move these applications through
11 the review process in about one to two months faster
12 than the PRIA statutory deadline.

13 That may not seem like a lot of time, but for
14 a lot of these products, a typical PRIA statutory goal
15 for deadline is about four to five months, so if we're
16 able to do these in about one to two months faster,
17 you know, we're looking at, you know, a 40 to 50
18 percent swifter turnaround time for the completion of
19 these registration decisions. Next slide.

20 When we first launched List N, it was
21 literally just that, a list, and we added -- over
22 time, we've been adding additional search
23 functionality. We did receive some feedback from
24 users that they were finding it a little bit difficult
25 to navigate or search, so most recently we launched

1 this web app tool, so it's not like something that's
2 downloadable from the app store, but it is a tool that
3 you can launch directly from EPA's website.

4 The web address is listed at the bottom of
5 this slide, and you can search for products on -- in a
6 variety of ways, from the registration number, if you
7 happen to have it, to, as Alex was saying earlier, I'm
8 only interested in products with a certain active
9 ingredient or products that can perform this intended
10 function in a certain period of time or, you know,
11 while many of the products are for use on hard
12 surfaces, somebody might be looking for a product that
13 could be used on soft surfaces or could be used as a
14 laundry additive.

15 And using this tool, you can utilize the "use
16 site" function to try to narrow in, and this becomes
17 particularly helpful as more and more products are
18 added rather than sifting through the list in a more
19 manual way. This app tool will help refine the list
20 for you in a swifter manner. Next slide.

21 We've also been responding to reports of
22 supply chain disruption. So beginning in March, and
23 then as it turned out it's been about once a month
24 with the most recent temporary change to the process
25 being announced last week, we've been making some

1 time-limited modifications to our registration
2 procedures to allow registrants to make changes to
3 their product's formulation that won't have an impact
4 on product integrity, product performance, or public
5 health and the environment. What this has allowed is
6 for a company to swap out sources of active
7 ingredients or certain active ingredients if they have
8 encountered a supply chain disruption or swapping out
9 like inerts, again, in the event of supply chain
10 disruption, so that product can continue to be
11 available for use in the response effort.

12 We primarily had been focusing on products
13 that were on List N. The most recent amendment that
14 we released last week did slightly expand the scope of
15 these time-limited modifications to include food
16 contact surface sanitizers that contain isopropyl
17 alcohol as the active ingredient. What we learned
18 from the food manufacture and preparation industry is
19 that they were encountering supply chain issues in
20 accessing food contact surface sanitizers, and as an
21 essential industry, we wanted to make sure that they
22 had products available to keep their workplaces safe
23 and food protection continuing. Next slide.

24 We already touched on this a little bit. So
25 we're not allowing companies to change the active

1 ingredient or change the inert. It's swapping out the
2 source. So if they typically obtained it from Company
3 A, for certain active ingredients, we're letting them
4 switch to Company B to source their active ingredient,
5 and same thing with the inert ingredient.

6 And then we were also hearing about the need
7 to simplify the process for adding additional
8 production facilities into the registration. So the
9 changes that are permitted under these temporary
10 modifications help to facilitate meeting those
11 markets, meeting -- as I mentioned earlier, we don't
12 anticipate that any of these changes result in
13 substantive changes to the formulation. We've done
14 comprehensive risk assessments on the product
15 formulations and the labels.

16 These changes are temporary in nature. If we
17 were to decide to make these procedures permanent, we
18 would only do so following an opportunity for public
19 comment on such a proposal. Next slide.

20 So I want to wrap up with sharing with you
21 some work that our microbiology laboratory at Fort
22 Meade is undertaking. For those of you that aren't
23 aware, we maintain two laboratories at the Fort Meade
24 Army Base in Maryland. One is an analytical chemistry
25 laboratory; and the other is a microbiology

1 laboratory. The microbiology laboratory has been
2 working on developing test methods for a number of
3 infectious pathogenic organisms for 20-plus years, you
4 know, ranging from clostridium difficile to candida
5 auris to legionella and now with the SARS-CoV2 virus.

6 One of the things that's unique about the OPP
7 microbiology laboratory is that it is the only
8 laboratory in the EPA network that is authorized to
9 study organisms that require handling in a biosafety
10 Level 3 laboratory. The SARS-CoV2 virus meets the
11 criteria to only be handled in a BSL3 laboratory, and
12 so we have a unique opportunity in our laboratory to
13 begin to study this virus more directly.

14 A goal of the work that they're doing is to
15 study the relationship between other human
16 coronaviruses that are typically handled in BS Level 2
17 laboratories with the SARS-CoV2 virus to determine
18 whether or not there's a comparative tolerance to
19 disinfectants between other human coronaviruses and
20 the SARS-CoV-2 virus. Next slide.

21 So we are in the early stages of beginning to
22 prepare for testing of already-registered disinfectant
23 products against SARS-CoV2. We're actually right now
24 working with a Level 2 virus to refine our standard
25 operating procedures, have our staff gain some

1 familiarity with the appropriate procedures for
2 handling the virus so that when we do move to testing
3 of the SARS-CoV2 virus they're prepared and they're
4 doing things appropriately to keep themselves and
5 their coworkers and families safe.

6 The goal of the work will be to evaluate
7 testing products against both hard and porous
8 surfaces. There is a priority focused on test method
9 for soft, porous materials. In part why this is
10 important is that we have already begun to receive
11 submissions from registrants who had earlier access to
12 the SARS-CoV2 virus, and so we will be beginning to
13 evaluate those studies where registrants have data on
14 the efficacy of their product specifically against
15 SARS-CoV2 rather than against a surrogate. Next
16 slide.

17 Some of the areas that -- where we've also
18 received some requests for flexibility and/or
19 consideration and we are scoping out what these might
20 look like, one is a mechanism to provide increased
21 communication to consumers at the point of sale. So
22 as I mentioned under the emerging viral pathogens
23 policy, there are different options for companies to
24 provide off-label communication to consumers about
25 their products once policy is activated. What we've

1 heard from some areas is an interest in expanding
2 those off-label communications to include distribution
3 or availability of materials at the point of sale.

4 We've all heard about concerns -- if we could
5 go back to the previous slide, I'm sorry. We've all
6 heard about reports of shortages of personal
7 protective equipment in the medical sector and
8 healthcare sector. We are also beginning to hear of
9 the potential if not immediately later on this year
10 for shortages of personal protective equipment in the
11 agricultural sector. And so we have begun to explore
12 how we might address those shortages of personal
13 protective equipment as part of -- as they intersect
14 with pesticide labels.

15 We've also been working with our state co-
16 regulatory partners to identify some additional
17 options for agricultural employers to provide the
18 annual required worker protection safety training to
19 their employees. And then as -- similarly we've been
20 working with the states on identifying some expanded
21 flexibilities to allow the states to maintain their
22 ongoing applicator certification programs, part of the
23 pesticide applicator certification role. Next slide.

24 The next two slides just give you all some
25 resources that you can consult if you have questions.

1 So this slide is a link to some websites, either for
2 more information, not just on OPP's role in the
3 Federal Government's COVID-19 response but to EPA's
4 response overall. There's also a link to the mobile-
5 friendly List N, as well as to the FAQs that I
6 mentioned earlier in the presentation.

7 And then the last slide is a set of resources
8 for questions that you or family members or colleagues
9 may have. So what we're trying to do is route those
10 questions to different mailboxes based upon the type
11 of inquiry, so -- and we have people that are
12 monitoring each of these mailboxes every day. So I
13 won't walk through this in detail, but I'll encourage
14 you to keep this available so that if you have a
15 question in any one of the areas listed, you know
16 where to reach out to to get a prompt response to your
17 inquiry.

18 I think that's my last slide, and so with
19 that, I will open this up for questions or comments
20 from the Committee. I think what we're going to do is
21 ask members of the Committee, so we don't have tent
22 cards that we can show is in presenter chat, if you
23 type in a question, if you'd like to ask a question,
24 we'll call on you and open your line as you type in.

25 So I think Iris has raised her hand, so we'll

1 start there. Iris?

2 MS. FIGUEROA: Yeah, thanks, Rick. So I was
3 just hoping to get a little bit more information on
4 two things that you mentioned in one of those last
5 slides. On the shortage of PPE, I know it's sort of
6 beginning stages, but can you talk a little bit about
7 what are the options that you're considering to
8 address that?

9 And, also, you mentioned additional options
10 for worker protection training. What specifically are
11 we talking about in terms of changes to the training?

12 MR. KEIGWIN: Sure. So, you know, we're
13 still in our formative stages, so some of the things
14 that we have looked at in terms of the PPE shortages,
15 the Occupational Safety and Health Administration has
16 issued some enforcement discretion guidance on things
17 such as testing for personal protective equipment that
18 has been certified in other countries that meet or are
19 similar to the certification of PPE that has been
20 undertaken by NIOSH. So we've been looking at whether
21 or not that is a starting point for some
22 considerations on the PPE front.

23 There's also been some good work that's been
24 put out from some of the pesticide safety educators
25 relative to, you know, looking at labels and seeing if

1 you can't find certain PPE, is there an alternative
2 product that doesn't require that PPE that could still
3 help you meet the pest management need that you're
4 trying to address.

5 Similarly, labels oftentimes will say the
6 minimum PPE requirement, so something could be
7 included that there could be a more protective piece
8 of equipment that would also maintain the level of
9 protection for the worker that's being sought by the
10 label. What we've heard from some is I think that
11 they can only use a PPA -- a PPE that's on the label.
12 So those are some of the things that we're exploring
13 on the PPE side.

14 On the training side, it includes things like
15 are there ways to provide the training remotely and
16 how could you do that. Are there ways on the
17 certification side to facilitate reciprocity? So
18 we're still developing what our guidance might look
19 like, but those are some of the things that we're
20 exploring.

21 So I think the next person I had was
22 Charlotte Sanson.

23 MS. SANSON: Yeah, hi. Thanks, Rick, for
24 that overview. And it's obvious that OPP has done a
25 tremendous job in working so quickly to get additional

1 flexibility and for the products to be approved. I
2 know it's much appreciated. But I was looking at your
3 slide that you were showing about the work that's
4 being done at Fort Meade with regard to efficacy
5 trials, efficacy evaluations, and I was just curious
6 if EPA is collaborating in this regard with other
7 regulatory agencies, other countries, because being as
8 this is certainly a global issue, just interested in
9 what collaboration you might be doing outside of the
10 U.S. in this area.

11 MR. KEIGWIN: Sure. And I don't know if
12 Kimberly's able to join us. We've certainly been
13 having some discussions with our colleagues in Canada.
14 Obviously we've had a quarter-century, if not longer,
15 relationship with them.

16 Kimberly, is there anything that you would
17 add?

18 MS. NESCI: So we have not been collaborating
19 with external agencies at this point, but it's certainly
20 something that we are considering, with other
21 countries, I mean.

22 MS. SANSON: Yeah.

23 MR. KEIGWIN: Okay, I think the next person
24 was Komal.

25 MS. JAIN: Hi, thanks. So, again, Komal

1 Jain, the Center for Biocide Chemistry. So I wanted
2 to reemphasize some of the points made by Rick for the
3 benefit of the PPDC members and members of the public
4 listening in. And I have a couple of recommendations
5 for future consideration.

6 First of all, from the disinfectant
7 registrant community's perspective, EPA, in
8 particularly the Antimicrobials Division, has been
9 incredibly responsive to the COVID pandemic. You
10 know, never have we faced a situation like this, and
11 forced to work within an existing paradigm that is
12 somewhat rigid and really compliment OPP and AD for
13 finding ways to quickly provide flexibility,
14 particularly when we realized that the current
15 framework was hindering industry's ability to produce
16 much of the needed COVID-fighting products. And I'm
17 really pleased to hear that some of the temporary
18 procedures that have been instituted under amendments
19 for 98-10 may become permanent. And we look forward
20 to being able to comment on that.

21 And I do hope that the pesticide and chemical
22 industry have been strong partners in addressing this
23 crisis. You know, we've worked in coordination with
24 EPA and other federal and state authorities on
25 developing a comprehensive list of hard surface

1 disinfectants. We've produced educational material,
2 and, more importantly, we've really increased
3 manufacture and donation of disinfectants, hand
4 sanitizers, and other personal protective equipment.
5 And we want to continue to support EPA now but also
6 for the future.

7 So as far as recommendations, you know, we're
8 hopeful that in a post-COVID environment we can do a
9 deep dive with EPA to see how EPA could more easily
10 deploy flexibility in a regulatory process,
11 particularly when it comes to strains with the supply
12 chain in sourcing material.

13 And, Rick, we're also recommending again at a
14 later time that there be, you know, thorough
15 evaluation of whether or not the emerging viral
16 pathogen policy can be or should be improved,
17 particularly when it comes to allowable claims, and
18 something that's already on your agenda, you know, how
19 can the producers of these disinfectants and maybe in
20 coordination with retailers better communicate
21 information to the public.

22 So, again, just a real thanks to OPP and ask
23 that, you know, we can support future conversations
24 once we get through this crisis.

25 MR. KEIGWIN: Thanks, Komal.

1 Amy Liebman.

2 MS. LIEBMAN: Hi, this is Amy Liebman from
3 Migrant Clinicians Network. Are you getting the echo
4 with me? Okay, it was echoing on my end.

5 I just wanted to ask, just follow up, first
6 of all with what Iris asked about. And thank you,
7 Rick, for giving us that explanation about what you're
8 looking into in terms of alternative PPE and also
9 looking at different types of training. I'd just ask
10 that you consider checking in with farmworker
11 stakeholders and making sure that what's going to get
12 recommended as potential alternatives will be as
13 protective as possible for our farmworker population.

14 The other question that I had for you is
15 about the disinfectants and our farmworker community
16 is being asked to use more disinfectants in terms of
17 keeping lodging disinfected, keeping transportation
18 disinfected. We're seeing just general reports to the
19 poison control center increasing, so I'm just
20 wondering if you can reflect with all these increases
21 in products how we can keep the farmworkers and
22 consumers that are using them, what kind of training,
23 what kind of resources are being put out there to make
24 sure that farmworkers and those that are using these
25 new products are educated about them and protected.

1 MR. KEIGWIN: Thanks, Amy. I might first
2 check to see if Anita Pease is online, if she had
3 anything to add in response, particularly to the
4 second question from Amy.

5 MS. PEASE: Hi, this is Anita. Can you hear
6 me?

7 MR. KEIGWIN: Yes.

8 MS. PEASE: Great. So in terms of
9 educational material to make sure that farmworkers
10 know to -- how to use these products safely, I would
11 refer them to a joint guidance we developed
12 collaboratively with CDC on how to use products, not
13 only disinfectants but other types of products to
14 clean surfaces and use them safely. So disinfectants
15 are not always needed in all cases. Sometimes soap
16 and water is just fine.

17 And I would also recommend that, you know,
18 you look at the directions for use on the label. We
19 just -- that's the most important thing when using
20 these products is to make sure that you follow those
21 directions for use, that the surface remain wet for
22 the appropriate contact time to kill the virus, but
23 those are two resources I would look at, just
24 basically the label and again some of the guidance we
25 developed with CDC.

1 MR. KEIGWIN: And, Amy -- thanks, Anita.

2 And regarding the first one, our goal is to
3 ensure that our workers who are utilizing these
4 products continue to remain safe. And so that's a key
5 consideration for us as we develop a potential
6 response relative to the PPE issue that I know a lot
7 of sectors have been grappling with.

8 Carol Black.

9 MS. BLACK: All right, thank you. Regarding
10 the PPE fact sheet that Rick mentioned, it is posted
11 on AAPFE website, and that's AAPFE.org, and it's under
12 COVID. And basically it says that pesticides may not
13 be applied -- may not be applied -- without the label-
14 required EPA. There are no substitutes, so there are
15 no alternatives, unless you just want to wear
16 something more protective. And there's no exemptions
17 to this, and selecting the alternative products as
18 Rick mentioned. So that's a resource.

19 And the other resource that people will
20 typically reach out to related to pesticide
21 information is the National Pesticide Information
22 Center, and they have information as well on that
23 topic, as well as proper handling of disinfectants.
24 And the good thing is is when I took our great tree
25 fruit guide that has all the herbicides and

1 insecticides and fungicides and select products for
2 that, there were very few of them that required
3 respirators. So we're quite relieved that I don't
4 think we're going to be facing the challenge we were
5 thinking we might be. Thank you.

6 MR. KEIGWIN: Thanks, Carol.

7 Joe?

8 MR. GRZYWACZ: So I just wanted to echo a
9 couple of questions that I think I've already heard,
10 and from a health point of view, I guess I was
11 wondering what do we really know about sort of the
12 combination of the disinfectants, for example, inside
13 the mass transportation that farmworkers are using and
14 the buses that they're, you know, going into the
15 fields in, what do we know about the ventilation in
16 there as far as whether or not those -- whether or not
17 those are posing potential threats to the workers in
18 transit, as well as sort of potential interactive
19 effects with pesticides then when they actually get
20 into the field?

21 Are folks looking at that kind of -- these
22 kinds of complexities I realize that we're in a
23 crisis mode, but it seems as though, you know, making
24 coordinated decisions would be helpful on these kinds
25 of actions.

1 MR. KEIGWIN: Anita, do you want to talk
2 about the risk assessments that we do as part of the
3 registration process for antimicrobials?

4 MS. PEASE: Sure. So, again, this is Anita
5 Pease, the Director of the Antimicrobials Division.
6 For all the products (inaudible) we've conducted a
7 comprehensive human health and environmental risk
8 assessment to ensure that the products are safe for
9 use as directed on the product label. Typically,
10 we -- to your point regarding interactions with
11 potential exposure to other chemicals, we don't
12 typically look at that in our risk assessments.

13 The risk assessments are really based on
14 exposure to those particular products based on the
15 labeled use. So we have evaluated the safety and
16 effectiveness of all the products, not only if they're
17 safe for human health and the environment but also
18 that they're efficacious against the virus.

19 MR. KEIGWIN: Thanks, Anita.

20 Damon?

21 MR. REABE: Yes. I just want to thank you
22 for the briefing and wanted to encourage the EPA to
23 work quickly on the reciprocity issue. With many
24 states not providing testing, we're finding ourselves
25 in a situation where when there's needs for commercial

1 pesticide applicators, particularly aerial
2 applicators, that arise that were not anticipated, our
3 ability to get certified in nonreciprocal states is
4 actually -- in some cases may not be possible because
5 the tests aren't being issued.

6 And, of course, the pest control season is
7 upon us, so I would just ask that the EPA move very
8 quickly at communicating with state lead agencies the
9 importance of developing some immediate flexibility in
10 that subject matter.

11 MR. KEIGWIN: Thanks, Damon. We appreciate
12 that. I think we've had at least three conversations
13 with, you know, all of the states and then many one-
14 on-one conversations. And those conversations have
15 been helping to inform how we would express more
16 publicly some flexibilities that exist.

17 MR. REABE: Thanks a lot.

18 MR. KEIGWIN: Karen Reardon?

19 MS. REARDON: Thanks, Rick. I just wanted to
20 pivot a little bit. You touched briefly at the end on
21 the resources the agency has provided in this
22 extraordinary time and wanted to ask how -- have there
23 been differences in the queries you've received from
24 consumers and others through those portals and, you
25 know, are there lessons learned we can extrapolate

1 from the kind of information people were seeking
2 during this unusual time? You know, are there lessons
3 learned we could take forward outside of the situation
4 when talking about pesticides?

5 I think this is a time where everybody has
6 been acutely aware of the need for efficacious
7 products and the appropriate ways to acquire them and
8 use them, so just wanted to get your take on that.

9 MR. KEIGWIN: Anita, I know you've been
10 having a lot of conversations, you and your staff, on
11 this topic. Any initial thoughts come to mind?

12 MS. PEASE: Sure. So we have a number of
13 different mailboxes, as Rick showed on one of his
14 slides, and we really tried to organize them in a way
15 that provided the best response for the type of
16 question that we get. So we have, you know, a number
17 of mailboxes in the Antimicrobials Division that are
18 designed for registrants who have provided us with
19 submissions to track their submissions. So that's
20 kind of one bin of comments.

21 We also have an ombudsman mailbox that we use
22 to track general inquiries from the public, as well as
23 information from companies or questions from
24 companies. And then the Field and External Affairs
25 Division has another mailbox that's being used to

1 track just questions from the public. So we've been
2 getting a lot of different inquiries. When we start
3 to see trends in those inquiries, we develop
4 frequently asked questions just to put that
5 information out to the general public.

6 But I think in terms of lessons learned, I
7 think, you know, when we get past the -- if we ever
8 get past the hump on this one, definitely going back
9 and making some of the information more readily
10 available in terms of frequently asked questions I
11 think is probably the way to go. And just I think,
12 you know, getting the feedback today at this meeting
13 has been very -- you know, will be very informative
14 moving forward, so appreciate all the feedback.

15 MR. KEIGWIN: Thanks, Anita.

16 Jim Fredericks?

17 MR. FREDERICKS: Thanks, Rick. I want to
18 just start out by commending OPP on your efforts.
19 It's been fast-moving, and the group has really done a
20 great job in terms of what you've reported on here
21 today. Specifically, the List N web app was a great
22 improvement over the first few iterations, and that
23 has proven to be helpful for our members' work in the
24 field.

25 As Damon kind of mentioned, this public

1 health crisis has coincided with the seasonal increase
2 in structural pest pressure that we see on an annual
3 basis as the structural pest control industry. It
4 also happens to coincide with our seasonal hiring
5 phases, and what we're finding is that many testing
6 centers are closed, and some states have found really
7 creative ways of addressing it, especially for new
8 technicians, but in other places, our members are
9 still running into a roadblock. And so we -- so I
10 want to thank you for initiating that conversation
11 with the states and providing any guidance that you
12 can, specifically with regard to finding creative ways
13 to make sure that new technicians are trained and
14 testing.

15 And also to echo Damon's comments with regard
16 to reciprocity because now more than ever it would be
17 extremely useful to have reciprocity on a wide-scale
18 basis across states.

19 And then, finally, just one last note with
20 regard to PPE guidance. So as you -- as OPP continues
21 to develop guidance specifically with regard to PPE, I
22 know that AAFCE and a number of other groups have done
23 a really great job of trying to get the word out about
24 PPE, but one of the phrases that I heard here today is
25 "more protective PPE" and that may not be necessarily

1 clear right away what it more protective if something
2 is specifically stated on a label. So help with
3 understanding what that is would be of great use to
4 applicators in the field.

5 MR. KEIGWIN: Thanks, Jim. That's helpful as
6 we continue to build out our response.

7 I want to make sure if I skipped someone and
8 you had raised your hand in the presenter chat, you
9 might want to retype it in. Or if not, I'll just see
10 if there are any other --

11 MS. TREVINO-SAUCEDA: This is Mily. Can you
12 hear me?

13 MR. KEIGWIN: Yes, Mily, go ahead.

14 MS. TREVINO-SAUCEDA: Oh, okay, sorry. I had
15 a lot of problems trying to get in. I'm sorry I
16 wasn't earlier --

17 MR. KEIGWIN: It's okay.

18 MS. TREVINO-SAUCEDA: -- involved in how to
19 do everything. I'm very bad with technology, so I
20 should have been more mindful.

21 MR. KEIGWIN: No worries.

22 MS. TREVINO-SAUCEDA: No worries.

23 MR. KEIGWIN: This is a first for all of us,
24 so you're good.

25 MS. TREVINO-SAUCEDA: Okay, thank you. Well,

1 good morning, everybody. Well, morning for me. I'm
2 in California, and the people that are over here on
3 the West Coast. I do want to come back in terms of
4 the question that Amy Liebman asked and mention, and I
5 think some of the other -- some other members also in
6 a way said it. It's -- for us, because we're out in
7 the trenches, we work directly with workers, and we've
8 seen so much, you know, different exposures and
9 situations, incidents that workers have gone through
10 in terms of the pesticides, misuse of pesticides, lack
11 of training of workers, lack of really supervision,
12 lack of many, many, many things.

13 So I would like to find out from you if you
14 do have -- and because of COVID, we all know that we
15 have to -- we have to cancel meetings, and we had a
16 convening, which we would have loved to come in and
17 meet with EPA people, which we did like several --
18 several years back.

19 And this is the Alianza Nacional de
20 Campesinas, and the reason for this is because we were
21 going to be bringing about 70-some women from 11
22 different states to really hear you in terms of some
23 of the -- you know, some of the things, some of the
24 processes, the protocols that you use, but at the same
25 time, we would have wanted you to listen to our

1 members in terms of what -- you know, from in Spanish
2 we say "[speaking Spanish]," which means from saying
3 and the willingness to do things is one very -- it's,
4 you know, it's very helpful, but at the same time,
5 from doing it, from what we say we want to do and
6 doing it is a very different thing, so -- in terms of
7 the implementation.

8 So my question is can you please explain how
9 you're making sure workers are trained and prepared,
10 because you did say, yeah, when you were trying to
11 make sure that workers were safe and workers are
12 trained, but can you explain how, because we're
13 finding out that -- and I'm going to applaud for
14 companies that do training with workers, but there's
15 many, many companies, businesses, that do not.

16 And so how can we make sure, how is EPA
17 making sure that it is really monitoring, because
18 we -- we don't -- we don't see -- you know, we don't
19 see the monitoring, the supervising, and much -- much
20 less right now but we haven't seen that. And at the
21 same time, just to end my question or my side of
22 frustration maybe is because -- because California is
23 starting the hardest -- right now we're entering into
24 the peak harvesting era, and during this -- this time
25 of the year, it starts around the middle of May all

1 the way to the middle of October.

2 And the virus already started infecting many
3 workers and connecting it with the lack of protection
4 of workers with the applications, everything else that
5 I just mentioned. We're getting worried because we
6 already have had workers that died, not just got
7 infected, but have died. Here in the Coachella Valley
8 where I'm at, there is -- there are -- there are
9 workers that have been infected, and companies say,
10 oh, well, workers, now we're having half of the
11 workers working one shift and now -- they changed, but
12 after 15 workers had been infected and one of them
13 died.

14 So -- and you've heard about what happened in
15 Washington State of there's several companies that
16 workers are being infected because there's a lot of
17 lack of protection, of really doing the distancing,
18 doing -- doing the -- making sure that if in the past
19 we have had the field sanitation, not, you know,
20 there's a lot of negligence there, which many more
21 times we're not part of that in terms of EPA's not
22 part of trying to monitor the field sanitation, but
23 it's all connected, it's all connected.

24 Workers -- at times, if they have restrooms,
25 restrooms are cleaned only on Monday, on Wednesday,

1 and then on Friday, when you have 30 or more workers
2 in a crew. And we all know that if they're not
3 cleaned several times a day with the amount of workers
4 how bad it gets.

5 So all this -- all this is we're creating --
6 I'd like to know in what way this -- this agency is
7 also connecting with OSHA and connecting and trying to
8 find a way to see how their safety -- we're called
9 essential workers now. We've been always essential
10 workers. Right now, I'm glad we -- you know, the
11 world has realized that if we don't work, we don't
12 labor in the fields, the agricultural fields, people
13 cannot eat. So it's -- I hope you're hearing my
14 frustration, but at the same time, I'm going back to
15 my question, please -- please explain if EPA does have
16 the resources or putting priority in terms of making
17 sure that workers are going to be safe. Thank you.
18 And trained.

19 MR. KEIGWIN: Thanks, Mily. Let me first see
20 if Carolyn Schroeder from our Certification and Worker
21 Protection Branch is on the line and if she has any
22 comments in response to Mily's question.

23 (No response.)

24 MR. KEIGWIN: While we get her connected,
25 Liza, I think you might have some thoughts from the

1 state perspective as our co-regulatory partners in
2 this area.

3 MS. TROSSBACH: Yes, thank you, Rick. Again,
4 this is Liza Fleeson Trossbach. I'm representing
5 AAPCO or the Association of American Pesticide Control
6 Officials, and I just wanted to make a comment
7 regarding the worker protection standard specifically
8 and ensuring that workers and handlers are trained and
9 are also, you know, receiving all of the personal
10 protective equipment, et cetera, that they need.

11 You know I can say without hesitation that
12 worker safety is a priority for states and
13 territories, always has been and always will be. And
14 all states and territories conduct both routine
15 inspections of agricultural facilities, as well as
16 complete investigations or conduct investigations when
17 there are concerns regarding the misuse, and any
18 violations of the Worker Protection Standard would
19 fall under that misuse.

20 And so while, you know, there well may be
21 situations where there are concerns with workers and
22 handlers, either not receiving training or not having
23 access to decontamination facilities, one of the
24 things that I would encourage workers and handlers or
25 those associations do is to contact your local

1 pesticide, you know, regulatory authority. Normally,
2 it's under the Department of Agriculture. In some
3 states, it may be under your environmental agencies or
4 it may be -- and California is a little unique with
5 their local county ag commissioners, but that is in
6 place.

7 And, you know, every state program is a
8 little bit different when it comes to inspections and
9 investigations, but all of us are out there, you know,
10 conducting those, so I would certainly encourage, you
11 know, folks to be aware of that and again to follow up
12 with your local agriculture communities. Again, that
13 includes not only, you know, initial training but, you
14 know, the annual training requirements, the surety for
15 decontamination facilities, that medical information
16 is available. So it does cover all those things.

17 Regarding the training, I'll just make a
18 brief comment since I have been involved in a number
19 of those discussions, particularly when it comes to
20 worker protection standards. Obviously, with social
21 distancing and wanting to maintain small groups, it
22 has been very difficult for states to be able to
23 provide that training; however, there have been a
24 number of states, and Virginia is one of them, that
25 has embarked, working with extension to do virtual,

1 live training, and we've had great success with that,
2 having our growers have workers, you know, sometimes
3 just, you know, two or three at a time to participate
4 in a virtual meeting much like this. We've been able
5 to have, you know, individuals that are bilingual who
6 were able to conduct the training in both English and
7 Spanish, and I know that that is also going on in
8 other states to, you know, various degrees.

9 This unprecedented time certainly has had a
10 lot of challenges for all of us, both the regulated
11 industry as well as regulators, not only with worker
12 protection but Jim Fredericks had mentioned
13 certification testing and Damon had, you know,
14 mentioned, you know, the reciprocity. States are
15 working on all of those issues actively, and, again,
16 if there's a particular situation or in a specific
17 state, I really encourage folks to contact the
18 pesticide regulatory officials in that state to talk
19 with them about options that are available or things
20 they are considering. Thank you.

21 MR. KEIGWIN: Thanks, Liza.

22 Has Carolyn Schroeder been able to join us?

23 (No response.)

24 MR. LLOYD: Hey, Rick, can you hear me? This
25 is Matt.

1 MR. KEIGWIN: Hey, Matt. Yes, please.

2 MR. LLOYD: Hi, how's it going? So
3 Carolyn -- yeah, she is having some trouble --
4 connectivity issues connecting, so I was just trying
5 to let her know to reconnect and get back on the line.
6 But over the past couple of weeks and months, you
7 know, we have had a couple meetings with two SLAs, you
8 know, highlighting some of the training issues and as
9 Liza was mentioning those challenges with trainings,
10 both, yeah, for WPS and some of the -- being able to
11 connect folks on highlighting the success stories and
12 letting folks kind of work together to try to
13 translate that, that to other areas.

14 MR. KEIGWIN: Thanks, Matt.

15 Carol Black, did you have a comment?

16 MS. BLACK: I do. Again related to Jim and
17 Damon's comment about the lack of testing
18 opportunities, obviously that's a significant issue at
19 this point in time, and one of the things that I know
20 that the AAPCO supply leg is working on, as well as
21 the certification training and assessment group, as
22 well as AAPSE and EPA, so all of us are kind of
23 working on parallel tracks trying to look at remote
24 testing options.

25 Obviously, identity of who's taking that test

1 and the exam security are the biggest issues, but if
2 there's anybody on PPDC -- and I'm thinking maybe
3 Douglas Burkett with Armed Forces Pest Management
4 Board, if anybody's got some ideas or knows of vendors
5 that can do secured testing, if you'd share that with
6 us, that would be very helpful. Thank you.

7 MR. KEIGWIN: Thanks, Carol.

8 So, you know, for OPP, you know, the
9 conversations that we've been having with the states
10 has been invaluable. As we talked about with the
11 other aspects of our response, this public health
12 emergency as relates to the availability of products,
13 we want to continue to hear from people on (inaudible)
14 that they have on the worker protection side of
15 things, on what else we can be doing or what is needed
16 to continue to promote the need to protect our
17 farmworkers. So we want to continue to have this
18 dialogue as part of the PPDC and then with groups
19 individually as well.

20 We want to be as responsive as we can. We
21 know we don't have all the answers, and working
22 together, we can find some solutions that will work to
23 advance the public health goals that I think we all
24 share.

25 Lauren?

1 MS. LURKINS: Yeah, hi. Can you hear me?

2 MR. KEIGWIN: Yes.

3 MS. LURKINS: Sorry, I just wanted to offer a
4 comment from Illinois. Our Department of Agriculture
5 worked with our extension and also I believe even OPP
6 to very quickly address -- I mean, they were kind of
7 in the middle of the in-person pesticide training and
8 licensing and exam portion of their work, and in the
9 middle of COVID, they had to readjust to look for the
10 first time ever for online training. And I just want
11 to take a minute to applaud all the people who helped
12 do that. It was a -- it was done in a very quick way,
13 and it was done with all of the approvals that were
14 necessary in bringing a lot of people on board.

15 And our membership, you know, the 80,000-or-
16 so farmers that we represent across Illinois was very
17 grateful for that really quick pivot to allow them to
18 still sit for exams and be able to take care of that.
19 So I really just wanted to lift that up as an example
20 that it can be done and it was done and to say thank
21 you for that.

22 MR. KEIGWIN: Thanks, Lauren.

23 Are there any other comments or suggestions
24 or questions from PPDC members?

25 Doug?

1 MR. BURKETT: Oh, yeah, hi, this is Doug --

2 MR. KEIGWIN: (Inaudible).

3 MR. BURKETT: Yeah, I was just going to try
4 to send Carol Black a note about her question about
5 secure testing and just that, yeah, DOD doesn't do
6 anything special. We have our own certification
7 program in DOD but we have testing centers for the
8 various services that do it for their respective
9 service certification requirements, and their testing
10 standards, of course, they have, you know, monitored
11 testing. And for those few people that take it by
12 correspondence, it's usually sent to testing centers
13 at an installation or if that's not available through
14 supervisors. So we don't do anything particularly
15 special for secure testing for certification. Sorry
16 to disappoint. Over.

17 MR. KEIGWIN: Okay, thanks.

18 Liza?

19 MS. TROSSBACH: Thank you, Rick. Well, I
20 wanted to make a follow-up comment regarding the
21 certification testing based on the couple of folks
22 that have chatted. States are very aware -- keenly
23 aware -- of the challenges with testing. You know,
24 many states' programs have been in place for many,
25 many years. All states are a little bit different.

1 Some already use online technology; some folks still
2 are paper-based systems. And, you know, I just want
3 to make the comment that, you know, again, states are
4 keenly aware. They're looking at what options are
5 available.

6 We have to remember that states and
7 territories also have laws and regulations, and some
8 of those in some ways prohibit changes to current
9 testing systems. And even if current testing systems
10 are alive, they can -- you know, they can require a
11 great expenditure of, you know, resources and putting
12 things into place. And so states are trying to be
13 very creative. Some states have been able to because
14 their laws allow them to waive certain requirements in
15 emergency situations.

16 Some states are doing in-person testing
17 meeting all the social distancing and small group
18 requirements, disinfecting between, you know, trainers
19 or, excuse me, between testers. There are also states
20 that have literally gone to allowing prospective
21 applicators to test in their vehicles in parking lots,
22 you know, and so trying to do what they can. And, you
23 know, again, we understand that there are prospective
24 applicators that need to get certified, and states
25 have been active.

1 Also, just for the group's knowledge, states
2 also have approved state certification plans with EPA,
3 and some changes would require amendments to those
4 plans, which also just adds to the complexity. I
5 think as states begin to hopefully reopen, I think
6 there will be additional testing opportunities for
7 those states that have testing centers. You know,
8 again, if they rely on those and they're closed, you
9 know, another challenge. So I would just, you know,
10 just kind of remind folks that not only are we trying
11 to provide those services to the industry and to do
12 that, but we're also trying to, you know, protect our
13 own workers, you know, as well. So thank you.

14 MR. KEIGWIN: Thanks, Liza.

15 Damon?

16 MR. REABE: Just one other comment, for those
17 of you that aren't directly involved in pesticide
18 application, I can speak for our own business and our
19 aerial application business, I think it's important to
20 note that all training and certification requirements
21 are -- they are really considered bare minimum forms
22 of training. And there's extensive amount of training
23 that's job-specific that is done after those
24 credentials are achieved.

25 And it doesn't -- I can't speak in regards to

1 farmworkers but I can speak on behalf of professional
2 commercial applicators, that those parts of the
3 process are thoroughly rehashed after the credentials
4 are achieved and then far more additional training is
5 done to safely handle and apply pesticides.

6 MR. KEIGWIN: Thanks, Damon.

7 Amy Asmus, did you have a comment?

8 MS. ASMUS: I just wanted to point out
9 that -- I just want to point out that Certified Crop
10 Advisers has been doing secure testing so there's
11 certification for I believe the last two years. So if
12 anybody would like their contact information, I'm sure
13 they would share some of their woes and their
14 learnings and maybe the system they use with any
15 states that are looking to flip something fairly
16 easily and have an example to maybe follow.

17 MR. KEIGWIN: Thanks, Amy.

18 Any other comments before we close up
19 discussion?

20 MS. STUCKER-GASSI: I have a quick topic I'd
21 like to flag for the conversation we're having. Here
22 in Idaho, we've recently had an academic study that
23 involved the review of Worker Protection Standard
24 violations and found about a 40 percent compliance
25 rate. And just looking at how it was mentioned before

1 and some follow-up to Mily's question that a lot of
2 this is state-specific.

3 So that may not be the same across the board,
4 but looking at how inspectors are measuring the
5 different components of the worker protection
6 standards and then marking whether it's in compliance
7 or not in compliance and then doing that follow-
8 through to make sure that applicators that fall under
9 licensed -- non-licensed applicators that fall under
10 licensed applicators or workers that are exposed to pesticides
11 are being best protected. There seems to be a crack
12 there that we're finding that needs to be solved and
13 addressed.

14 MR. KEIGWIN: I just want to confirm, was
15 that Christina?

16 MS. STUCKER-GASSI: Yes, it was.

17 MR. KEIGWIN: Okay. Thank you for that.

18 Any other comments?

19 (No response.)

20 MR. KEIGWIN: If not, what we will do is
21 thank you all for the feedback. We appreciate it. It
22 will be helpful as we continue to develop our
23 responses in the Office of Pesticide Programs on the
24 response effort. Again, thank you for the candor as
25 always and the input.

1 At this point, what we will do is we will
2 take a break. Our next session starts at 1:15, so
3 you'd have about an hour. It might be helpful for
4 PPDC members to log back in if you can at about 1:00,
5 just so that we can make sure that -- some of you
6 might shut down the Adobe Connect if you need to and
7 just so that Shannon, Carla, and Troy can get you all
8 kind of repopulated back into the presenter chat
9 function.

10 So thanks again, and we'll reconnect in about
11 an hour. Thank you.

12 (Luncheon recess.)

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1 AFTERNOON SESSION

2 MR. KEIGWIN: -- very helpful and gave some
3 really good ideas. Let me at this point turn things
4 over to Arnold Layne and Susan Jennings to lead us
5 through the next session.

6 Arnold?

7 MR. LAYNE: Thank you, Rick, and good
8 afternoon, everyone. This is Arnold Layne. I am the
9 Deputy Office Director for Management in the Office of
10 Pesticide Programs. And with me I have Susan
11 Jennings.

12 Susan, would you like to take a moment to
13 introduce yourself?

14 MS. JENNINGS: Sure. I'm Susan Jennings from
15 the -- I'm the Senior Advisor for Public Health for
16 the Office of Pesticide Programs.

17 MR. LAYNE: Great. Thank you, Susan.

18 So today we're going to talk to you about the
19 Public Health Workgroup that was started in 2017.
20 Before I do, Rick mentioned that I was away on a
21 detail, and I came back to the Office of Pesticide
22 Programs in October. We formed this workgroup in
23 2017, and I do want to pause to thank Susan Jennings,
24 as well as Wynne Miller, while I was on detail for
25 continuing to shepherd this very important effort that

1 we put underway in 2017 with the PPDC and the sub-
2 workgroup of the full PPDC.

3 And so the goal of the Public Health
4 Workgroup was to develop and provide -- I realize that
5 I'm driving, so I've got to -- I'm not seeing how to
6 move slides, Shannon, anymore.

7 MS. JEWELL: Okay, let me advance those for
8 you, Arnold.

9 MR. LAYNE: Thank you.

10 MS. JEWELL: Sure.

11 MR. LAYNE: So our goal of forming this
12 Public Health Workgroup of the full PPDC was to
13 provide suggestions to the full PPDC to help the
14 Office of Pesticide Programs respond more effectively
15 (inaudible) and considering when and if and how to
16 involve other agencies in the response, as well as
17 something that we thought was the pinnacle of any sort
18 of output, and that was communications with
19 (inaudible) about pesticide needs to be harmonized
20 across the board. Slide, please.

21 And with the hard work of the PPDC members
22 who were on this workgroup, we made recommendations to
23 the Office of Pesticide Programs that focuses on four
24 key areas, and this is just the first step in
25 improving emergency response preparedness for the

1 Office of Pesticide Programs.

2 So the first area was for EPA to clarify its
3 roles and responsibilities. The second was to engage
4 and involve our stakeholders and to do that early and
5 often. The third was to improve access and education
6 for pesticides, integrated pest management, control
7 measures and tools, and again, improve communications
8 during an emergency response.

9 And by being proactive, preparing for
10 emergencies now, we wanted to improve future emergency
11 response, and by doing so, we would have the ability
12 to reduce resources needed for an emergency response,
13 as well as respond more rapidly, accurately, and
14 consistently. And so I want to clarify what EPA's
15 role is. Next slide, please.

16 MS. JEWELL: Okay, I'm bringing them right
17 back up, Arnold. Something happened. They'll be
18 right back.

19 MR. LAYNE: Okay. So the Office of
20 Pesticide's role in an emergency, we are not expected
21 to be the lead responder in an emergency, although we
22 are fully engaged. We are -- we rather serve as a
23 vital role when pesticides are needed, whether alone
24 or in part of an integrated pest management program;
25 to respond in an emergency situation; and providing

1 information on registered pesticides to control
2 microbial vertebrate and invertebrate threats to
3 public health.

4 At this juncture, I'm going to turn it over
5 to Susan, who is going to walk you through in a little
6 bit more detail the areas that were recommended to OPP
7 from the full PPDC.

8 Susan?

9 MS. JENNINGS: Okay, thank you, Arnold.

10 Shannon, could we have the next slide? And
11 the next one maybe, too. Okay.

12 The first basically topic area that the
13 workgroup wanted us to address was defining EPA roles
14 and responsibilities a little bit more clearly because
15 and a lot of this -- you know, we'll take it back a
16 year. These roles and -- these recommendations were
17 developed -- were finalized almost a year ago now, and
18 this was prior to the pandemic and prior to the entire
19 response to the COVID-19.

20 Now, what we're doing now, so what we're
21 going to do in this presentation is we're going to
22 talk a little bit about what these roles and
23 responsibilities are and then go into how the current
24 COVID-19 response dovetails and feeds into the
25 recommendations that came out of the PPDC last year.

1 And so the roles and -- so many of these things were
2 kind of related on the Zika, because that was our most
3 current response afterwards, and the roles and
4 responsibilities of EPA need to be very, very clear to
5 people because frequently they'll try to -- you know,
6 we speak for pesticides, so there will be lots of
7 different queries, you know, what kind of pesticide
8 should I use, should I do this, should I do that, you
9 know. And so it's very important to -- for us to make
10 sure that our role is clear to everyone else so that
11 it doesn't have this side set of results and confusion
12 and misinformation and ultimately the potential misuse
13 of pesticides, which doesn't work and serve the roles
14 of any of us.

15 Okay, so I think I have control now, Shannon?
16 Is that what I'm seeing?

17 MS. JEWELL: I think you do. You want to
18 give it a try? There you go.

19 MS. JENNINGS: Okay. So the PPDC
20 recommendation was that we should make -- we should
21 clarify in detail how OPP's role might vary by crisis
22 type. And now this particular is very well
23 illustrated. This particular bullet is very well
24 illustrated by the difference between the Zika
25 response and the COVID-19 response in that, you know,

1 Zika was mosquitoes, and so there was a lot of how
2 much are we involved in mosquito control advice versus
3 mosquito control pesticide advice and things such as
4 that nature.

5 In this thing, the COVID-19, it's pretty
6 clearly that it's the disinfection angle that we're
7 working from, so that has made it very clear for us.
8 The recommendation was also that we -- our
9 communication role's made clear throughout the public
10 health emergency, that we make sure that we define our
11 role relative to other programs for the federal
12 agencies, and that we ensure that others are aware of
13 our roles and responsibilities so that they rely on us
14 for the areas where we do have expertise and then
15 don't rely on us in the areas where we are not the
16 lead voice.

17 And in the COVID-19 response, as I mentioned
18 earlier and I think Rick and Anita all mentioned this
19 morning, OPP is really laser-focused on the
20 appropriate and the proper use of pesticides or
21 disinfectants to combat SARS-CoV-2 or the COVID-19
22 disease. The EPA website is [EPA.gov/coronavirus](https://www.epa.gov/coronavirus),
23 which has information from both Pesticide Programs and
24 the Office of Water on it. And then OPP has a
25 disinfectant website, which you heard about this

1 morning, and it clearly states our roles, and it lists
2 all the pesticides that can be available, the List N.

3 When we're responding to communications,
4 they're very, very focused on staying in the lane. We
5 have made sure that, you know, different -- the team
6 starts to stray and somebody -- it's never the same
7 person -- will pull it all back together again,
8 knowing to stay in our lane, stay in our lane. It's
9 kind of turned into a little mantra, which has made
10 everything more efficient and effective as well.

11 We've also been working on a new public
12 health webpage that's going to be available that is
13 going to have a -- be a more direct response to this
14 issue on the public health -- that the public health
15 recommendations were. And that particular webpage is
16 expected to be active fairly soon.

17 Okay, so number two, let's talk about
18 stakeholder involvement. During an emergency, we have
19 to respond to a number of queries from different
20 entities, and so the concern was raised by the PPDC
21 last year that we need to reach out directly to
22 stakeholders and make sure that stakeholders are
23 involved and recognize that the particular
24 stakeholders will vary -- sometimes significantly --
25 on the type of emergency and the seriousness of the

1 emergency. So the recommendation was made that we do
2 more of it essentially. So we do outreach, use the
3 tools that we have in a more concerted and focused
4 manner to reach out to our stakeholders in general.
5 And then it went on to list the number of different
6 types of stakeholders, which you can all see here.

7 Now, for the COVID-19 response, again, this
8 has been very focused on the disinfectants, which are
9 considered antimicrobial pesticides. And we have
10 reached out, the Antimicrobial Division and our
11 communications folks, to the regulatory communication
12 enforcement issues. There's a lot of communication
13 within OPP, across OPP, and across EPA with our Office
14 of Enforcement and Compliance to try to ensure that
15 we're all essentially keeping abreast of the
16 activities.

17 So this has turned into not only stakeholder
18 involvement but also internal stakeholders, trying to
19 ensure that across all of EPA we're all focused on the
20 same goal and the same -- we all have the same
21 marching orders, which has been pretty effective so
22 far. It's been very effective so far.

23 We have reached out to other federal
24 agencies, state governments, registrants, trade
25 groups, and communications have occurred through

1 pesticide updates, standing meetings, social media,
2 and others to increase the stakeholder awareness.

3 The third topic that was recommended by the
4 full PPDC last year was pesticides, IPMS, and other
5 control tools and basically stating that we have
6 mandates to educate and encourage proper use of
7 pesticides and the corresponding use of IPM. And this
8 was mentioned then and is still mentioned very
9 regularly, that for public health pesticides the
10 maximum efficacy is critical to an emergency and that
11 the use of the pesticide must be done appropriately
12 and properly in order to ensure not only the safety of
13 the people but also the efficacy of the pesticide so
14 that it does perform as it needs to to help control
15 whatever the target organism is.

16 So for this, the PPDC recommended that we
17 adapt existing tools, processes, because some of the
18 initial tools -- the EUPs, the Section 18s, primarily
19 the Section 18 emergency exemption to a formal
20 registration process, many of the tools online in the
21 descriptors and the directions -- am I here?

22 (Brief audio interruption.)

23 MS. JEWELL: Hi, Susan, you're here.

24 Carla, do you know anything about that? Were
25 you able to mute that?

1 I think Carla probably got it for you, Susan.

2 Sorry about that. Please go on.

3 MS. JENNINGS: Okay, thank you.

4 So basically the pesticides, IPM, other
5 control tools, we were charged -- one of the
6 recommendations was basically to update EPA's website
7 so that it specifically addresses public health
8 concerns, as well as the -- what needs to be done in
9 an emergency to address these issues. Some of our
10 websites tend to be a little bit agricultural-focused,
11 and so what we're trying to do is we're -- and this is
12 a constantly evolving area, but to update those
13 sections so that it does specifically address public
14 health and emergency response and preparedness because
15 that's what this entire initiative is about, is about
16 making sure and trying to encourage OPP to become as
17 prepared for emergencies as we can possibly be.

18 One of the areas was also discuss the roles
19 and the options for pesticides that are not
20 registered, and this means, you know, include novel
21 delivery options for pesticides. In the current
22 emergency, we've seen electrostatic sprayers, we've
23 seen some other issues that are not necessarily in the
24 specific realm of what we have registered. And so we
25 are investigating those and seeing whether or not --

1 what type of role they may have in this type of an
2 emergency response.

3 So for the COVID-19 response -- I know
4 I'm kind of waffling back and forth between these
5 slides -- but as I said, antimicrobial pesticides are
6 the focus. And AD, as Rick went through this morning,
7 was very well prepared for this type of emergency with
8 their emergency viral pathogen guidance that was
9 issued almost five years ago. The List N was quickly
10 developed, made available to the public, and is being
11 updated weekly with updates and new products.

12 The antimicrobial regulatory process has been
13 streamlined during the emergency, and this is a
14 response that we're seeing OPP embrace more and more
15 with each emergency in that we -- but we are trying to
16 formulate -- I think one of the concerns addressed by
17 the last PPDC was whether or not these issues are --
18 this process is publicized, formalized, structured in
19 such a way that everyone is aware of exactly what it
20 is. And so with each emergency, we're seeing more and
21 more steps into that, into trying to make this a more
22 regular part of our -- and formal part of our
23 regulatory process.

24 And IPM methods, including nonchemical means
25 of control, are also covered during the COVID-19

1 response.

2 The last issue I'm going to discuss here
3 today is communications. During an emergency,
4 accurate pesticide information is needed quickly, and
5 what our job is in the OPP is to ensure that the
6 accuracy does not suffer as a result of the time
7 pressure. And so we need to -- and, secondly,
8 consistent pesticide messaging is really critical. It
9 helps short-circuit any misinformation that might be
10 distributed by other people, by other parties, and it
11 helps people to really -- to understand what is the
12 message as opposed to just trying to put our message
13 out there, put it out there in such a way that other
14 people can embrace that message and magnify it out to
15 their particular constituents.

16 So consistency on the next slide, messages,
17 communication being proactive, that means trying to --
18 some of these thorny issues, trying to work through
19 them prior to the emergency so that when the emergency
20 does occur, because we always -- we will have another
21 emergency. They might not always be pandemics, but,
22 you know, these emergencies are coming with some
23 regulatory at this point. We'll be ready for that.
24 We can issue statements out very quickly and
25 effectively.

1 There was a concern about using plain
2 language. They wanted our communications to be a
3 little bit more plain language, particularly when it
4 involved discussions about pesticides and specific
5 pesticides and the risk assessments and the risk
6 management pieces of those messaging. They want that
7 to be -- the PPDC recommended that that be done in
8 plain language so that everyone can understand it.

9 Then, lastly, create standard statements for
10 pesticide use during emergency. Sometimes we see a
11 lot of the same issues arising in each emergency, and
12 we've made a lot of steps towards improving this, and
13 I think that there's even more for us to do in the
14 future.

15 So for the communications in the COVID-19
16 response, I think some of this we've covered, but
17 we've been collaborating both internally and
18 externally to maximize consistent messaging. One of
19 the more recent achievements was for -- was issuing a
20 joint guidance with CDC on cleaning and using EPA-
21 registered pesticide to kill SARS-CoV-2 on surfaces;
22 posted a webpage for coronavirus inquiries and
23 information. There's a "frequently asked questions."
24 There's the List N site. Not only have we updated the
25 content of the List N, but as was mentioned earlier,

1 the whole adaptation of the app for the phone, the
2 mobile app, and different improvements to that site
3 have been occurring, have been ongoing.

4 We have made, again, the -- frequently the
5 top 10 EPA sites, if not the top EPA site. And,
6 lastly, intra-agency workgroup and coordinating
7 consistent responses across agencies has also
8 occurred.

9 I'm going to turn it over now back to Arnold,
10 who's going to talk a little bit about the conclusions
11 and next steps.

12 MR. LAYNE: Okay, thank you, Susan.

13 So I guess in conclusion, I think that the
14 PPDC's recommendations to the Office of Pesticide
15 Programs certainly have helped improve our response
16 during COVID, the pandemic. And the Antimicrobials
17 Division, in fact all across OPP, has been working
18 very, very hard to ensure that we are responsive as we
19 need to be, and so while we have done, I believe, very
20 well in responding, there is always additional work
21 that can be done. So in that vein, all emergencies
22 are not the same, and so we have to be agile enough to
23 be able to respond with different types of
24 emergencies, whether it's microbial, vector diseases,
25 or natural disasters.

1 And so as a result, the Office of Pesticide
2 Programs plans to continue implementing those
3 recommendations from the PPDC so that we are better
4 prepared should, and hopefully not, another emergency
5 happens.

6 So the next slide here, we just wanted to
7 take an opportunity to thank the members of this
8 workgroup and also the full PPDC body for its
9 recommendations to the Office of Pesticide Programs
10 and the folks who worked so diligently from the PPDC
11 on this effort on the slide that you see. And
12 appreciate the support that you have given to the
13 Office of Pesticide Programs and suggestions. Thank
14 you very much, and I guess we'll turn it over to Q&A
15 at this point.

16 MR. KEIGWIN: We have some music in the
17 background for our entertainment. So for PPDC
18 members, if you type your name in chat, we will call
19 on you in the order...

20 MS. JEWELL: We are working on it right now.

21 MR. KEIGWIN: Amy Asmus?

22 MS. ASMUS: Awesome. Can you hear me now?

23 MR. KEIGWIN: Amy Asmus, did you have a
24 question?

25 MS. ASMUS: I did. Can you hear me?

1 MR. KEIGWIN: Yes.

2 MS. ASMUS: Okay. First of all, I would like
3 to thank this Committee because I think they have done
4 an excellent job and have been an excellent example of
5 what PPDC could do through workgroups, and we'll talk
6 about that tomorrow.

7 My question was as we work through this I
8 thought it was great that you made the comment that
9 you don't make it about COVID-19, you don't make it
10 about Zika; you make it about the emergency response
11 to those. Is there a difference in responses based on
12 the vector that causes the emergency? If we have a
13 pest and we need to eliminate that pest, or if it's
14 human-to-human and we have to disinfect so that's not
15 passed on, is there many differences between the two
16 vectors? And how do we set up something for emergency
17 response that actually hits on all the different
18 vectors and how to control those vectors?

19 MS. JENNINGS: Should I take this one,
20 Arnold?

21 MR. LAYNE: Sure, Susan. I have some
22 comments, too, but go ahead.

23 MS. JENNINGS: No, you go ahead. That's
24 fine.

25 MR. LAYNE: No, no, please. Go ahead.

1 MS. JENNINGS: Oh, okay. I just wanted to
2 say that there's -- it can be both. There's a lot of
3 underlying as a structure that underlines our response
4 and preparedness for emergencies such as we discussed
5 expediting registrations, making sure the
6 communications are good and strong and consistent, but
7 then -- and so those underlying tenets are the same
8 for every single emergency pretty much.

9 But what will vary tremendously are the
10 stakeholders. So for example in the current
11 emergency, there's not a whole lot of interaction with
12 mosquito control districts or, you know, the tick
13 people or even, you know, community type of response
14 because it is a pandemic across the whole nation. A
15 lot of the same material is not -- it's not as
16 geographically specific as the others.

17 And so I think that there's -- that part will
18 vary tremendously within how we respond and why and
19 what the different issues are. So I think the answer
20 is both.

21 Arnold, did you want to add something to
22 that?

23 MR. LAYNE: I think you nailed it, Susan.
24 Thank you.

25 As Susan alluded to, I think the

1 recommendation of the PPDC and the subsequent work
2 that the Office of Pesticide Programs has done has put
3 in place an infrastructure to deal with these types of
4 emergencies, whether, you know, it's vector or human-
5 to-human or whatever the case may be, a natural
6 disaster. And we're called upon many times over that
7 you may not know about when there's a natural
8 disaster, for example. Our Office of Emergency
9 Management may call upon us to provide information
10 about a particular pesticide and its use.

11 So I would agree with Susan that it is
12 certainly both, but, again, the whole purpose of this
13 workgroup was to put in place an infrastructure and
14 some tenets that are common to use in emergency
15 situations. And, again, I am very pleased with the
16 fact that this workgroup was successful, and we have,
17 as an agency, used the tenets and the recommendations
18 coming from the PPDC almost a year ago now.

19 And having worked on Zika and COVID-19,
20 there's quite a difference obviously, but there's a
21 lot of similarities, so -- in terms of how the agency
22 responds. And, again, I think the most important
23 tenet that came out of the PPDC group is our ability
24 to communicate and communicate often and be very clear
25 about what it is we're communicating with regard to

1 pesticide products and our response.

2 Thank you. I hope that answers your
3 question.

4 MS. ASMUS: It does, and thank you again for
5 all your work on this.

6 MR. KEIGWIN: Okay, it looks like the next
7 person having a question is Dan Kunkel.

8 MR. KUNKEL: Yeah, hi, Rick, thanks. Good
9 afternoon, everyone, and I think I'm kind of following
10 along the same lines from Arnold and Susan's
11 responses, but I just didn't really see in the
12 presentation -- and I know it's happening -- but how
13 are the guidance updated? I assume it's a living
14 document and a lot of the, as you know, information
15 that you're gaining from this most recent pandemic
16 you're incorporating into the guidance, but I just
17 didn't hear how that's actually taking place formally,
18 being implicated into the guidance and being used. If
19 you could comment on that, thank you.

20 MR. LAYNE: So, Dan, this is Arnold. I
21 assume that you're referring to the recommendation
22 from the PPDC, correct, and how are those being
23 updated from -- while we're in this pandemic. Is that
24 basically what you're asking?

25 MR. KUNKEL: Yeah, just to capture --

1 MR. LAYNE: Yeah, I think we're taking one
2 day at a time. The amount of work and the pace at
3 which OPP is moving to be responsive may not allow us
4 to stop and pause right now with regard to updating
5 the recommendations of the PPDC, but I don't want to
6 speak for my office director, but certainly a question
7 has put in my mind that in all likelihood, as we did
8 with Zika, we had what's called a hotwash after things
9 started to settle and talked about what went well,
10 what areas we can improve upon and in that sense
11 improve the guidance or any sort of other
12 recommendation going forward from having what we call
13 hotwashes.

14 So -- and I'm hopeful that we will be able to
15 do that in this scenario and in case something very
16 similar -- and hopefully not -- comes along, we would
17 have updated the guidance based on all the experience
18 that we've gained through this pandemic --

19 MR. KUNKEL: Great. Thank you, Arnold. And
20 I can appreciate, you know, you're in the throes of
21 the fight right now, so having a retrospective would
22 be very important. Thank you.

23 MR. LAYNE: Yeah, Rick, I don't know whether
24 you wanted to respond to any of that, or Susan.

25 MR. KEIGWIN: So, Arnold, this is Rick. I

1 think one of the important reasons why we put this on
2 the agenda is so that we're thinking about these
3 things while we're in the midst of our response and so
4 we're all kind of taking notes about not only what we
5 would do differently the next time, as Susan said,
6 there will be a public health emergency next time.
7 Hopefully it's not a pandemic like this time, but then
8 there's also things that we can do in the midst of our
9 response as appropriate.

10 So some type of a hotwash or series of
11 hotwashes, and in some respects this is a part of that
12 effort, this conversation, will be among the things
13 that we do and have been doing actually throughout, so
14 thank you, Dan, for that suggestion.

15 Susan, did you have anything to add?

16 MS. JENNINGS: No. The only thing I would
17 say, too, is that I think -- personally what I'm
18 seeing is that during this emergency I think people
19 are more aware of the actual process of responding and
20 of preparing for the response, so I think the last
21 PPDC recommendations have kind of shone a light on
22 this across OPP, and so I think we'll probably see
23 some good suggestions at the end of this because
24 people will be aware of it as they're going through.
25 And that's all I have.

1 MR. KEIGWIN: Any other comments or
2 questions, suggestions from the Committee?

3 (No response.)

4 MR. KEIGWIN: If not, Arnold and Susan, thank
5 you very much.

6 We are about 40 minutes ahead of schedule. I
7 would suggest that we -- if Ed, we'll ask you if you
8 think your team is available to begin the emerging
9 technologies session.

10 MR. MESSINA: I'm here, I can start if you'd
11 like. Liza's on.

12 MR. KEIGWIN: Yeah, why don't we start.

13 MR. MESSINA: Liza, are you there?

14 MS. TROSSBACH: Yes, I am.

15 MR. KEIGWIN: All right, why don't we move
16 into Session 3, and Ed Messina will lead that
17 discussion.

18 MR. MESSINA: All right. Can folks see me on
19 the video? Hello, everyone.

20 Shannon, will this work with video and with
21 the slides? Or should we just do slides?

22 MS. JEWELL: Oh. We can certainly try that.

23 MR. MESSINA: Okay. Hello, everyone. I'd
24 much rather be there in person with you. Obviously
25 during these times, you know, interesting times that

1 we live in, I figured I'd do a little video, too, so
2 you could at least see my face. We can go to the
3 beginning, to the title slide there, Shannon. Do you
4 want me to control anything, just sort of scroll up
5 and down?

6 MS. JEWELL: If you would like to control,
7 you can certainly do that.

8 MR. MESSINA: Yeah, I'll do that.

9 MS. JEWELL: Okay. You had added a webcam
10 there, Ed. I don't know if you would like to do that
11 again. I tried to switch you over.

12 MR. MESSINA: So are you not seeing my webcam
13 anymore, or...

14 MS. JEWELL: Not seeing it, no, un-nuh.
15 There you go.

16 MR. MESSINA: How's that? Okay. All right,
17 great.

18 All right. So this session, we're going to
19 talk about emerging technologies. It's an area that's
20 been in my portfolio since I've been at OPP. I'm the
21 Deputy Office Director for Programs and work for Rick.
22 And this is sort of one of the areas that I pay
23 attention to in my portfolio. And it's a fun topic,
24 but I have lots of pictures to try to make it fun and
25 interesting. It's a provocative topic, too, and so

1 really the premise is that, you know, technology is
2 really changing the way we go about our day. I think
3 this meeting is an example of that. And then
4 technology is also changing the way we grow our food,
5 which is the space that I care about in OPP.

6 And so the question that I have as a
7 regulator is, and the question I ask myself, is in the
8 face of these technological advancements, what policy
9 and label changes are necessary to adapt to these
10 changing technologies and meet rising public
11 expectations. You know, for example, is a long paper
12 label sufficient nowadays? Is that meeting customer
13 needs? Is that ensuring efficacy and public health
14 protections?

15 So on my introduction slide, I sort of talk
16 about setting that up, you know, what are the
17 technological forces at work, how are they influencing
18 agriculture? Talk about sort of the problem statement
19 as a regulator. I've got lots of fun examples. I
20 talk about some EPA efforts and then talk about some
21 potential workgroup charge questions. And Liza's
22 going to take a deeper dive on some of the work the
23 states have been doing and particularly in the area of
24 UAVs.

25 So really the premise is that how we use

1 pesticides to help grow our food tomorrow will look
2 very different from how we use them today, and then
3 what policy and label changes are necessary. You
4 know, when you think about these advances in microchip
5 computational capabilities and miniaturization, the
6 connectivity of devices, the internet of things,
7 artificial intelligence, and predictive analytics, 3D
8 printing, robotics, voice recognition, the ability to
9 really rapidly process incredible amounts of data and
10 augmented and virtual reality.

11 You know, these things have made this meeting
12 possible. They influence how we buy products today,
13 how we drive semiautonomous vehicles and we control
14 our SmartHops. And the pace is increasing. And if
15 you think about what these technologies will look like
16 in the future, we can already sort of see, you know,
17 how our lives are going to be changing from a societal
18 standpoint and then also how we are going to be
19 growing our food in the future.

20 I don't know if folks have heard about the
21 Apple glasses yet, but they are really close to
22 launching something soon, which is sort of the
23 augmented reality piece where you have a dashboard up
24 front on your visual display similar to the old Google
25 glasses. Apple has been in the works on that, so, you

1 know, we could all be walking around with those
2 sometime soon.

3 And then as the technologies advance and they
4 become cheaper to deploy, they're certainly going to
5 expand into lots of areas of our lives, including
6 agriculture and how we grow our food. So the premise
7 is how we grow our food tomorrow will look very
8 different from how we grow our food today. And, in
9 fact, folks on this call are probably already aware of
10 the technologies that are out there and already
11 examples that are in current agricultural practices,
12 so precision farming, robotics, artificial
13 intelligence, advanced sensor technologies,
14 hyperspectral imaging, the internet of things, QR
15 codes, product traceability, where you can find out,
16 you know, exactly where that head of lettuce was
17 picked, what truck it was on, what was next to it,
18 when it shipped until it makes its way to the store or
19 sort of restaurant that you're in, unmanned aerial
20 vehicles, an example of this, and then sort of
21 augmented reality.

22 So, oh, yeah, when we think about a tractor,
23 you think about sort of the old tractor that's in the
24 field, and this is sort of an example of what the
25 current tractor looks like. This is the scale, me

1 standing -- Rick and I attended a session for the
2 Equipment Manufacturers Association, and you can see
3 the scale of this tractor.

4 The amount of technology on this tractor,
5 with GPS positioning, sensor technology, so it's
6 taking information from last year's growing season and
7 it's using it to plant new seed and spray nutrients
8 and spray pesticides in amounts that vary depending on
9 the data that the tractor has in its system. And you
10 also have tractors that have imaging in real time on
11 the tractor, so they're looking through the field.
12 They're examining weed pressure compared to, you know,
13 the crop that you're growing, and they're making
14 calculations to determine whether pesticides need to
15 be sprayed.

16 So for an example, as a regulator, you know,
17 who is the user of the pesticide at that point? I
18 mean, is it the tractor? Is it the person operating
19 the tractor? There's sort of questions that our
20 regulations sort of ask or interpret and suppose that
21 one thing is happening, and that's how they're
22 written, but yet a new technology has come along and
23 it's creating a scenario that the regulations hadn't
24 contemplated yet. So how is regulating going to keep
25 up with that?

1 The UAVs are part of that example as well.
2 We've got a number of requests in-house and have had
3 many requests asking, you know, can I use UAVs to
4 spray the pesticide in the field. We're seeing
5 examples. We have members in the PPDC, and this was a
6 topic of our PPDC in the past specifically on UAVs,
7 using it for mosquito control or forestry and being
8 able to access remote areas where potentially manned
9 aircraft can't go or high-terrain areas where it's
10 difficult to get manpower in those areas to help. So
11 UAVs are a new technology that we've been asked to
12 look at.

13 On the one hand, there is certainly a
14 benefit. You can potentially get more precise
15 delivery of a pesticide. On the other hand, maybe
16 they're lighter, maybe the spray nozzles are
17 different. Maybe the rotor vortices are different,
18 and maybe you're getting drift. So that's an area
19 that we are continuing to obtain research on, work
20 with our partners, and understand the risk potentials
21 from these UAVs. And Liza will go into a little bit
22 more detail about some of the state efforts, and we've
23 been partnering with the states on that.

24 Now, this is a picture of an autonomous
25 robot. So this is -- you think about the tractor of

1 large scale in the first picture; this is -- you know,
2 you can have many, many small tractors and robots
3 going through the fields that are looking in real time
4 for weed pressure and making a decision to spot spray,
5 roaming the fields all the time, day and night, and
6 kind of looking at weed pressure. So the amount of
7 pesticide you might need to use would be, you know,
8 very reduced as a result of being able to go out in
9 real time and exam weed pressure using this sort of
10 automated approach to robotics.

11 Here's an example of a robot inspecting a
12 head of lettuce at an indoor grow. So you have a new
13 sort of way of growing our food is a lot of indoor
14 growing areas, where the food is on trays and it
15 cycles through. It's getting the right amount of
16 light. The robots move the product through the
17 factory.

18 They're looking -- they're using in this next
19 slide sort of hyperspectral imaging, which can tell
20 you many things: how much nutrients are needed, where
21 are the weed pressures, where is the moisture needed
22 and nitrogen content so you can, you know, take a
23 hyperspectral imaging picture, either using satellite
24 or a UAV, or it can be mounted on the tractor, and
25 then decisions are made in real time about the

1 particular pesticide spraying that needs to happen.

2 This is a QR code. In terms of labeling, you
3 know, when someone is at the store, can they just take
4 a picture of the QR code and get all the information
5 that they need on that particular product? In fact,
6 can the label come with that QR code and then the
7 label is communicating with the tractor.

8 You scan -- the tractor can scan that code
9 and know exactly what product they're being sprayed
10 on, how much they need to spray, what the application
11 rates are, and you can contain lots of data and
12 communicate and have the label basically be talking to
13 the tractor as it needs to spray and go through the
14 field. And, so, you don't really have a user
15 interpreting that label; you potentially have an
16 automated sort of AI interpreting what the label is
17 saying. How do we account for those sort of
18 scenarios?

19 This is the augmented reality, so it's, you
20 know, through your phone or through a video. It's
21 taking -- it's using different light wavelengths that
22 the human eye can't see, and it's showing you sort of
23 the health of the product. There's a dashboard on the
24 left and the right to indicate, you know, how much --
25 whether you need more nutrients or not, and so how are

1 decisions being made using this new technology?

2 So that's sort of, you know, the future of
3 things. You know, the here and now in terms of what
4 OPP has been doing in this space is sort of helpful
5 and sort of builds a foundation for how we might be
6 able to adapt in the future. So we within OPP have
7 been undertaking an IT digital transformation.
8 Currently, a lot of our data tends to be segmented and
9 tends to be in specific databases that individuals
10 need to query.

11 We're hoping to take some of that data, move
12 it to the cloud, make it more user-friendly and able
13 to be queried so that we can answer questions more
14 rapidly. And so if people are pinging our data and
15 saying, hey, does this label allow this rate, we'll be
16 able to serve up that information in more real time
17 than we currently are able to do. So we're
18 undertaking that digital transformation as we speak.

19 OPPEL is the example, and QR codes and OPPEL
20 came out of discussions within -- with PPDC in the
21 past. So this is an example of sort of the PPDC
22 workgroup's working or conversations working and
23 saying, okay, how can we improve things. So OPPEL, QR
24 codes, web-distributed labeling, sort of all examples
25 where the label can be more interactive for that

1 customer who's about to use that label and apply the
2 pesticide.

3 And so by more interactive I mean potentially
4 using your phone while you're searching the web and
5 searching for the product that you're about to spray
6 on. And then rather than having to search through a
7 40-page label to find the information that you need,
8 the label is served up to you in a way that makes it
9 much more user-friendly. It distills the information
10 to a format that you need in real time and at the
11 precise amount of sort of knowledge that you need,
12 which ensure efficacy and public health protection
13 because there's potentially a greater understanding of
14 that user with the product and then saying that for
15 this specific task, here's what I need to do and the
16 information is served up.

17 On the UAV side, we have an internal
18 workgroup within EPA. We've been working with the
19 states technology workgroup, and then I mentioned the
20 Commodity Classic that we -- that Rick and I attended,
21 the Association of Equipment Manufacturers, talking to
22 the manufacturers of these sort of large
23 technological, you know, tractors and precision
24 farming tools and really sort of asking them, you
25 know, what -- how can the labels be better, how are

1 they being used, and sort of gathering information in
2 that way.

3 So these are some of the questions that I
4 would pose to the group and that we're asking within
5 OPP and of our state partners and registrants and
6 growers and consumer groups and workers, you know, how
7 should EPA obtain a greater understanding of how the
8 use of emerging technologies leads to reduced or
9 increased risks that differ from those resulting from
10 current methods, and then what changes to EPA's
11 approach to labels, if any, are needed to accommodate
12 emerging technologies?

13 And then I have lots of hyperlinks and quick
14 links you can kind of search around and see some of
15 the fun photos and technological solutions that are
16 sort of out there today and are influencing the work
17 that we do and will continue to influence the work
18 that we do within OPP as we try to meet consumer
19 demand and try to meet the demand of these emerging
20 technology expectations.

21 So with that, I'll toss it over to Liza. I
22 thank you for your time on this workgroup. I've
23 attended a number of these, and I've found them
24 incredibly informative, so we really value your time
25 and thank you for the work that you do in the various

1 sectors that you represent.

2 MS. JEWELL: Hello?

3 MS. TROSSBACH: Hi, it's Liza. So will I be
4 advancing the slides, I guess, just to make sure?

5 MS. JEWELL: You can if you see the arrows on
6 the lower left.

7 MS. TROSSBACH: Okay.

8 MS. JEWELL: Okay.

9 MS. TROSSBACH: Okay. Thank you very much.

10 Thank you, Ed, and I appreciate the
11 opportunity to provide an overview of AAPCO's
12 technology workgroup. As Ed had mentioned, AAPCO has
13 been working on a variety of technologies and new
14 ideas that have come in front of its members and in
15 2019 decided that it was time to put together this
16 workgroup, and so I'm going to just provide a little
17 bit of information about what the group has been
18 working on and where we see it going in the future.

19 So just to provide, you know, an overview of
20 pesticide regulatory programs, you know, when we talk
21 about state and territorial pesticide regulatory
22 programs, you know, there's overarching goals of all
23 those programs, just like with the EPA to protect
24 human health, the environment, and ensure the
25 availability of pesticides. We all work towards that.

1 And in those programs, we do welcome new and
2 emerging technologies into our programs; however, it
3 can be very challenging for states based oftentimes on
4 our current laws and regulations, policies and
5 procedures. It is possible that something new will
6 come onto the market, but our current laws and
7 regulations may prohibit it or may not specifically
8 allow it, and so we have to work through a process to
9 be able to have those technologies incorporated into
10 what we do.

11 In addition to that, I mean, there's also a
12 huge learning curve that's often involved. Some of
13 the challenges to implementing or bringing in some of
14 those technologies into our current programs is the
15 public process. Unlike, you know, a private entity
16 that may be able just to be able to make a change, the
17 government's process is a public process, a
18 transparent process, and so oftentimes there may be a
19 -- you know, months, multiyear process, for example,
20 to promulgate a new regulation or even to amend a
21 regulation before a government, for example, like in
22 Virginia, before we can implement something new, and
23 so oftentimes technology tends to be ahead of
24 regulatory authorities and, therefore, implementation
25 and adoption may be delayed.

1 We also have to look at all those
2 technologies in a variety of aspects. Ed talked a
3 little bit about some of those technologies, one, do
4 our laws and regulations allow it, but are our
5 certification programs, you know, where they need to
6 be? What does the label say? How does that, you
7 know, affect other aspects of our program? And so
8 there's a lot of things that we have to take into
9 consideration. So, you know, we want to move forward
10 and we want to embrace things, but it does take some
11 time.

12 And another thing is I always say if you know
13 how one state works you know how one state works. And
14 so every regulatory program, meaning every state or
15 territory, is going to proceed at a different pace.
16 It's going to depend on their public process. We all
17 have a public process, but they vary in length.

18 It's also going to determine -- or be
19 impacted by the human resources that are available as
20 part of that process. Is there staff to work on it?
21 Do they have the financial resources? There are some
22 states or territories where they will not allow any
23 changes to regulations that could, you know,
24 potentially increase fees in some way, so there are a
25 lot of things that are going on.

1 And then, of course, other priorities. I
2 think the best example is COVID-19. I think all of us
3 have been impacted in one way or another whether
4 you're in the private sector or the public sector.
5 There are a lot of things that we want to do, but
6 certainly that has taken, you know, its toll on a lot
7 of our programs.

8 So keeping all those things in mind, as I
9 mentioned, AAPCO put together a Technology Work Group,
10 and the mission or the goal of the workgroup is to
11 work with, of course, states and territories, which
12 are our members, EPA, and other stakeholders as well
13 to understand the issues that are involved with
14 whatever that new specific technology is that we're
15 looking at. We want to look at it within the existing
16 regulatory framework, to develop guidance where needed
17 that, you know, to help and show consistency and
18 compliance interpretation and assistance and to serve
19 as a communication hub. We heard about that. We --
20 with the Public Health Workgroup, and we talk about it
21 all the time, so this workgroup is really trying to
22 pull all of those things together.

23 There are some situations where there are
24 regulations in place, but there may be options, for
25 example, I'll use the certification testing and the

1 fact that there are limitations on that. In that
2 case, you know, there are some opportunities to waive
3 certain requirements in certain states to address, you
4 know, those issues surrounding that and COVID-19. So
5 part of this workgroup is also to say, you know,
6 within an existing regulatory framework, are there
7 ways to work within that framework without necessarily
8 having, you know, to make a change, or is there
9 something that can go in place until, for example, if
10 there's a regulatory change needed that that can be
11 put into place.

12 So one of the first things that the workgroup
13 did early this year in January is to do a survey of
14 states and territories. And the workgroup has decided
15 to focus first on the unmanned aerial vehicles or
16 unmanned aerial systems or UAVs. This was seen as the
17 most pressing or, you know, newest issue, and as more
18 and more states are seeing this, you know, the thought
19 was to focus on that first. So the survey focused on
20 what are the exposures of states and territories to
21 UAVs.

22 You know, are they getting calls from
23 applicators and businesses that want to utilize these
24 technologies? What are they trying to -- you know,
25 what are the concerns that they found? Is it about

1 certification? Is it about training manuals and
2 exams? Is it about label language, to try to get that
3 information? And this information was used to help
4 focus the workgroup's priorities as they move forward
5 in addressing issues. And, of course, the other part
6 of that was to provide feedback to EPA and the Office
7 of Pesticide Programs since, of course, they are also
8 looking at, you know, this particular technology.

9 So when we're looking at regulating unmanned
10 aerial vehicles, in general, pesticide applications
11 using UAVs are still relatively new to states and
12 territory regulatory programs. While we have seen
13 more of them, it is still relatively in its infancy
14 for us. The technology was first introduced on the
15 West Coast, you know, Washington State, Oregon State,
16 but we've slowly seen it move eastward, and we are
17 considering that here in Virginia, North Carolina, and
18 there are a number of states that are doing that.

19 And as I had mentioned previously, it's a
20 learning curve for both regulators and the regulated
21 industry. And we have not necessarily had to --

22 (Brief audio interruption.)

23 MS. TROSSBACH: -- this before.

24 One of the things that we've learned about
25 UAVs in this industry is that it's both agile and

1 innovative. We've seen obviously the use of UAVs in
2 an agricultural setting. We have also seen them begin
3 to be integrated into traditional aero applications,
4 so we're also seeing these UAVs being adapted to new
5 application situations. In light of COVID-19, we've
6 seen these being used for -- to disinfect large areas
7 like stadiums or arenas or convention centers. So
8 very agile and very innovative.

9 And, again, as governments, we tend not to be
10 quite as agile as the industry is. We have seen a
11 number of implications from the pesticide regulatory
12 programs, and out of that survey really came four
13 areas from states and territories, and I'm going to
14 talk about three in a little bit more detail. The
15 first area that states are most concerned about or
16 really feel like is a priority area is pesticide
17 labeling. There's also the Worker Protection Standard
18 and requirements under that, the certification of
19 pesticide applicators, and then consistency across
20 regions of the U.S. with the implementation of these.

21 So to start out with the pesticide labeling
22 and the Worker Protection Standard, because the Worker
23 Protection Standard is referenced on pesticide labels,
24 I'm just going to talk about those two together. You
25 know, as the group knows and as I'm sure we've all

1 heard that, you know, the label is the law, and all
2 states have as a minimum requirements for application
3 is that users follow the label. It's considered a
4 legal agreement between the user, EPA, the registrant,
5 and the regulatory authority. And, of course, as
6 pesticide regulatory officials, our job is to ensure
7 that the label is solid.

8 You know, the label mitigates the risk of the
9 use of the pesticide, and so any changes, you know, to
10 the label, of course, have to be followed. And that's
11 where really kind of, you know, where the rubber hits
12 the road. You know, the label is based on the outcome
13 of the risk assessment, you know, the risk is
14 mitigated to an acceptable level. And so when we're
15 talking about UAVs and UASs, there are a lot of things
16 that are seemingly unknown right now.

17 I think most of us think about the use of
18 UAVs as reducing the potential risk for exposure, but,
19 you know, there have also been reports where it is
20 possible that in some scenarios that there could be an
21 increased risk of exposure. And so those are things
22 that we think about, and once that risk assessment is
23 done and the science is out there, how is that going
24 to impact the use of the product? How is the label
25 going to change? You know, how are we going to

1 enforce that label now? How are we going to do the
2 required outreach and education that's needed? And so
3 those are some of the things related to the risk.

4 Of course, the failure to follow the label is
5 a violation of both federal and state law. While we
6 do enforce the label, we certainly believe that an
7 educated community is a compliant community, and so,
8 again, we go back to that education piece. But in
9 those cases where there are violations, you know,
10 there could potentially be enforcement action. And so
11 the label and the labeling requirements are very
12 important. And, again, that includes the Worker
13 Protection Standard. If you have handlers and
14 workers, they also need to be aware of those changes,
15 and employers need to make sure that they provide
16 their workers and handlers with whatever equipment may
17 be needed.

18 Current labels, some of the specific issues,
19 for example, assuming all requirements can be met, do
20 aerial applications include UAVs? Some states think
21 that they do; some states are not so sure. If they
22 do, are the boom length and the wingspan ratio
23 requirements applicable? You know, can an applicator
24 meet those with the use of a UAV? There's also been
25 questions if a label is silent on aerial applications

1 but not prohibited, can the UAVs be used to make the
2 application?

3 There's been questions or considerations
4 about personal protective equipment or PPE, for
5 example, gloves. Gloves could hinder a pilot. If the
6 pilot is considered an applicator but doesn't contact
7 the pesticide, do they have to wear the gloves?

8 And then for the Worker Protection Standard,
9 if a label does reference the Worker Protection
10 Standard, then it does have to be put into -- it has
11 to be implemented, who is the handler? And I'm going
12 to illustrate that on the next slide.

13 So related to applicator certification, all
14 states require certification of commercial applicators
15 and private applicators or those that are applying
16 restricted-use pesticides to be certified. And
17 commercial applicators and private applicators are
18 core competencies and category-specific competencies
19 that they have to demonstrate that they meet.

20 So when we talk or think about UAVs and UASs,
21 some of the things that we're now thinking about is,
22 you know, who is the applicator, because there can be
23 multiple folks involved in an unmanned aerial
24 application; what's the appropriate category for
25 certification, for example, do these particular

1 applicators fall under an aerial category, or should
2 there be an unmanned aerial vehicle category? And if
3 it is, you know, an aerial category, does the training
4 manual and exam reflect those minimum competencies
5 that they need to know. Or if not and they have --
6 and a new category has to be developed, then what --
7 then what is required in those manuals, you know, and
8 exams?

9 And an example of one of those things that is
10 complicated with applicator certification, and this
11 particular example came out of Oregon, in this
12 particular example, there were five people involved in
13 the aerial application for unmanned vehicle. So you
14 have one person who does the mixing and loading of the
15 pesticide; you have a second person who's operating
16 the UAV controls; there's a third person who's serving
17 as the remote pilot in command and has final authority
18 on all decisions and actions on the operation; you
19 have a fourth person who's a second controller who
20 manipulates only the application equipment; and then
21 you have a fifth person who is the observer who radios
22 in advisory information.

23 So in that particular situation, of the five
24 people, who is the applicator, or who are the
25 applicators and where does that ultimate, you know,

1 responsibility lie?

2 So from those three top priority areas that I
3 just spoke about, what the Technology Workgroup is
4 looking to do is to develop some type of a guidance
5 document, frequently asked questions, et cetera, that
6 can be used by states and territories to address some
7 of the questions that we have. There may be some
8 questions that can be answered that there's a very,
9 you know, black-and-white answer for that was with
10 some clarification, you know, can be put into place.
11 And then there are some other maybe potential more
12 gray areas where this group will put together a
13 guidance document for states for them to consider.

14 And, of course, the guidance document is not
15 the law, it's not a legal requirement, but that may
16 help states determine how they want to proceed in
17 their states. The hope with the work group is to act
18 -- you know, continue to actively engage with EPA on
19 the issues that I mentioned and other issues that
20 arise as it relates to UAVs and UASs and whatever the
21 further -- you know, the next technology may be.

22 Right now, while we're still working, this
23 workgroup is still focusing on UAVs and UASs, the next
24 potential focus area, one that's come up are self-
25 driving spray rigs. These are rigs that can do

1 granular applications or liquid applications. Ed had
2 shown a couple photos of some of these, you know,
3 unmanned type of applications, equipment, tractors,
4 and so that may be the next thing that this workgroup
5 focuses on. And, you know, again, the next other, you
6 know, who -- you know, what else might be next, it
7 seems like again technology is very innovative, very
8 adaptive, and I would expect to see many more things.

9 Just to wrap up, Robby Personette, who's with
10 the Wisconsin Department of Agriculture, Trade and
11 Consumer Protection, is the Chair of AAPCO's
12 Technology Workgroup, and his contact information is
13 here. Also, if you are interested in seeing the
14 results of the survey, they are available at the AAPCO
15 website and under the Technology Work Group block, and
16 any other information can be found there. And with
17 that, I'll close. Thank you.

18 MR. KEIGWIN: Thanks, Ed. Thanks, Liza.

19 Questions for the Committee or from the
20 Committee?

21 Mano?

22 MR. BASU: Thanks, Rick. Oh, it's an echo on
23 my side?

24 The first question I had is multiple-part.
25 So who is involved in the EPA UAV working group, what

1 are the activities they're engaged in, if we can get
2 an overview of that? What other state emerging
3 technology workgroups, are there specific projects
4 that these state emerging technology workgroups are
5 working on, and how are different stakeholders
6 engaging in these technology workgroups? Thank you.

7 MR. MESSINA: Hi, this is Ed. I'll take that
8 one. Yeah, I mean, we have representation from a
9 number of the OPP divisions. I think that the HED and
10 EFED folks are kind of key players. And so we can get
11 you a list of names. There's maybe about a dozen or
12 so folks that have sort of UAVs in their portfolio
13 within OPP. And we have -- I've attended the Emerging
14 Technologies Workgroup. Jeff Dawson, Dan Rosenblatt,
15 those are some names that are both on the UAV
16 workgroup and are liaisoning with the state technology
17 workgroup. Does that answer your question?

18 MR. BASU: Yes, that helps. And then on the
19 state emerging technology, are there specific
20 projects?

21 MS. TROSSBACH: Sorry, you're talking about
22 AAPCO's Technology Workgroup, or are you still talking
23 to Ed about the EPA's workgroup?

24 MR. BASU: The AAPCO's, the AAPCO workgroups
25 are the state technology workgroups, correct?

1 MS. TROSSBACH: Correct. I just wanted to
2 make sure. You know, as I had mentioned, right now,
3 that workgroup is just looking at UAVs and UASs. Its
4 first project, I guess you could say, was the survey.
5 From the survey, they are putting together a guidance
6 document and frequently asked questions to assist its
7 members which are state and territorial regulatory
8 officials. When looking at some of those issues, of
9 priority, again, are certification issues, the
10 pesticide labeling issues, and the Worker Protection
11 Standard and how UAVs apply to those and, you know, to
12 ensure that we understand how that's interpreted, how
13 EPA's interpreting those things, and then how we can
14 assist the user community in being with compliance.
15 So that's the first activity.

16 I would expect as this group gets farther
17 into those activities and other issues will arise and
18 they may find that other projects or other specific
19 focuses come into being. With the current public
20 health crisis, while that work has started out, you
21 know, pretty vigorously, there have been somewhat of a
22 slowdown just given as states adjust to that, but I do
23 know that that workgroup is continuing its work, and I
24 would expect as time goes on for that to become more
25 robust again.

1 MR. MESSINA: Yeah, the other thing I would
2 add is the PPDC has had two sessions on this. So if
3 you look on the PPDC website, in addition to these
4 materials, if you look at the prior meetings, the May
5 meeting and the October meeting, we had Lee County
6 Pest Control talk about their mosquito operations
7 using UAVs. We had a company that was doing UAVs with
8 regard to forestry out West in Washington or Oregon.
9 And there's presentations that exist on the PPDC
10 website as well. And the AAPCO website, I believe,
11 right, Liza?

12 MS. TROSSBACH: Yes.

13 MR. BASU: Thank you very much, Ed and Liza.

14 MR. KEIGWIN: Okay, Joe.

15 MR. GRZYWACZ: Thanks so much for this
16 forward-looking presentation. It seems as though a
17 lot of the technology, especially on the first part of
18 the presentation, so I guess that would be from Ed,
19 you know, sort of assumes good connectivity. And I
20 guess I'm kind of wondering, you know, the extent to
21 which a fair amount of ag occurs in areas where there
22 isn't as much bandwidth or where accessibility to all
23 the cloud-based computing and that sort of stuff is
24 available, you know, how are those shortcomings being
25 addressed or considered as you think about, you know,

1 putting everything up into the cloud so that people
2 can find things and use things more accessibly?

3 MR. MESSINA: Yeah, great question, and it's
4 a great example of the things we need to think
5 through. So I don't have a panacea answer for you. I
6 think, you know, when you think about 5G coming
7 potentially, you know, the other things is, like,
8 these tractors and these spray rigs sort of exist now,
9 and generally what they're doing is because of the
10 lack of connectivity, and I know there's probably
11 folks on this PPDC group that can answer this question
12 better than I, but, you know, you're taking the data
13 from the tractor, you're using last year's sort of
14 harvesting records that's contained, you bring it back
15 to your computer in your office, you kind of download
16 the data, you communicate with the tractor, and so you
17 can have your own sort of, you know, data ecosystem,
18 if you will, on the farm that's communicating with the
19 tractor so that when the tractor is planting the seeds
20 in the spring, it's using last year's data and it's
21 sort of making adjustments depending on if there was a
22 depression in this area, or there's more moisture, and
23 that is occurring right now, as we speak. And there's
24 products that are out there to help you manage your
25 growing to get better efficiencies all about sort of

1 the market there.

2 In terms of, you know, connectivity for a
3 user looking at the label, I mean, yeah, you're right,
4 I think that would need to be solved, but I think, you
5 know, that's a bigger issue that EPA won't solve, but
6 I think looking at the past and looking at the future,
7 it's going to change. I mean, that connectivity, that
8 last -- they call it the last mile, right, of
9 connectivity, that's going to be fixed at some point,
10 and then there's going to be a lot more users that are
11 out there sort of pinging the EPA data system as a
12 customer of that data system to get more data, but
13 it's a great question.

14 MR. GRZYWACZ: And I really appreciate your
15 response to that. I mean, I'm looking at a map right
16 now of broadband distribution, you know, in various
17 parts of my region of North Florida, and there's wide
18 variability, you know, from one place to the other.
19 And, you know, so if a farmworker was going to try to,
20 you know, find one of your quick labels and try to
21 figure out what it actually means, well, in some parts
22 of the State, they're going to -- it's going to work
23 just fine, and in other parts it's not going to work
24 very well.

25 MR. MESSINA: Yes. And you think about parts

1 of the West, and I know this is a tribal nation issue
2 as well in terms of connectivity and the amount of
3 data they have, so, yes, great question.

4 MS. TROSSBACH: Ed, can I make a comment?
5 This is Liza. Just talking about that, that's one of
6 the things that, you know, states and territories also
7 discuss and, you know, talk about when we talk about
8 anything with technology, anything that relies on the
9 internet. There are a lot of areas in a lot of states
10 that just do not have that.

11 And so when we talk about things like web-
12 distributed labeling or being able to go just look and
13 get specific instructions, one thing that states and
14 territories are adamant about is that all that
15 information, while it can be available electronically
16 via the internet, it also needs to be available on the
17 container of the product that's being used by the
18 applicator, because they want to make sure everybody
19 has the information that they need however they want
20 to get it.

21 And maybe at some point in the future that
22 will be the only option available, but, you know, but
23 right now, that's just not the reality. And so as
24 pesticide regulatory officials, and I would expect all
25 of the users and pesticide safety educators, it's

1 really important that applicators have access to that
2 information in more than one way and an access to all
3 the information that they need. Thank you.

4 MR. KEIGWIN: All right, thanks.

5 Damon?

6 MR. REABE: Yes. So we've -- this will be
7 the third meeting now that we've, you know, had a
8 pretty lengthy discussion on unmanned aerial vehicles
9 as a platform for pesticide application, and it was
10 brought up today specifically in the agricultural
11 setting. What were the EPA's plans for spray drift
12 risk assessments in the agricultural setting?

13 MR. MESSINA: Yeah, great question, and I
14 would say we're getting a little more momentum around
15 that. We are -- you know, our hope is to get some
16 workgroups together to parameterize some of our
17 existing spray drift models. And so, you know, that's
18 kind of where we are. We're looking at protocols for
19 what study submissions would look like, and Amy
20 Blankenship from our EFED workgroup, someone who's
21 putting some think pieces together on what we might
22 need from at least an ecological risk assessment
23 standpoint, so activity continues to evolve.

24 We continue to reach out and seek information
25 on studies from universities and registrants and

1 manufacturers. And as we get individual requests for
2 pesticide registrations using UAVs, which has been
3 mentioned, we've had a couple of those requests, we're
4 continuing to talk with the registrants and the
5 equipment manufacturers to solicit data that will help
6 us make an informed decision from risk standpoint.

7 MR. REABE: When I look, there's -- I can
8 look up the docket number, but there was a request for
9 public comment back in 2013, and it had to do with
10 some new methodologies that the EPA was going to
11 implement for pesticide spray drift, and when I go
12 back and look at that document, I'd like to point out
13 that I think there's a very large space for unmanned
14 platforms to operate within the existing confines of
15 existing spray drift risk assessment.

16 And that would apply -- I'll just read the --
17 basically just a lead-in of background information on
18 that docket. And it says, "Exposure to spray drift is
19 assessed for agricultural and residential spray
20 applications of liquid formulations except for
21 applications with handheld or backpack sprayers." And
22 a lot of interest in these vehicles is centered around
23 agricultural settings where backpack applications or
24 handheld spray applications are being conducted. And
25 so I just want to remind the EPA that in those

1 particular scenarios, spray drift risk assessments are
2 not required.

3 Conversely, in agricultural settings where
4 we're talking about large enough acreage, where we now
5 are using ground-based equipment or existing manned
6 equipment, I think there needs to be very clear
7 messaging to those applicators that because those
8 assessments have not been done, they're not part of
9 any existing modeling, and therefore we don't know
10 what those risks are, that those applications are not
11 in any way legal.

12 And so I think that leaves a tremendous -- I
13 don't believe that public health applications require
14 those same types of assessments, which would take care
15 of needs of the people who are using them for mosquito
16 control. And we talked about stadium disinfection,
17 you know, again not an agricultural setting.

18 But I think in order to provide this emerging
19 technology with the appropriate direction so that it
20 can expedite the technology's adoption, I think the
21 existing framework is very clear, and it is an
22 extremely important element for the safe application
23 of those large volumes that are done in agricultural
24 settings.

25 MR. MESSINA: Yeah, thanks. And, of course,

1 happy to talk further offline with you about this, as
2 we have in the past, and I would say also happy to
3 talk individually with anyone on the research side, on
4 the modeling side, to gain a better understanding.
5 And I think your point is a really good one and it
6 illustrates partly what we're struggling with, right?

7 So if you compare a UAV to a backpack
8 sprayer, you would suppose that you'd probably have a
9 better risk profile because that person is not
10 standing as close to the equipment as, you know,
11 someone who's using the backpack sprayer. And, so,
12 presumably, if the health risks were fine for the
13 backpack sprayer person then they'd be fine for a UAV
14 operator who's maybe standing away.

15 You know, the rub becomes how -- what does
16 the drift profile look like in terms of, as I
17 mentioned, sort of the rotor vortices, how much of
18 this stuff is getting stirred up. We know what the
19 nozzles look like, but we haven't really modeled what
20 the downwash and the rotor speeds look like, and
21 that's some information, along with other information,
22 that we'd be looking towards for --

23 MR. REABE: Yeah, and it's specifically
24 important to get out in front of if we were, say, for
25 instance, going to protect, say, the U.S. corn crop

1 with unmanned vehicles of these varying platforms
2 before we would -- I think before the EPA would want
3 to make it clear that that's a legal activity on any
4 type of scale that obviously we'd need to be doing
5 those types of -- those types of assessments would
6 have to be conducted.

7 MR. MESSINA: Yeah, and as we've -- when I've
8 talked about this topic, the first thing we say is
9 anyone interested in using UAVs as an application
10 equipment, please talk to your state lead agency and
11 work with them. We want to work closely with you on
12 that to see what applications you're examining, and
13 then let's take the label that you're looking at and
14 you want to use, and let's run it through its paces to
15 make sure that there aren't label requirements that
16 are going to prohibit the use of the UAV, and then
17 let's see what, if any additional data we need to sort
18 of talk about how that label is going to be used.

19 And that's why we've had some discussions
20 with mosquito folks and we've gotten some applications
21 in-house as a result of the conversations we've been
22 having with those parties. And, again, happy to talk
23 further.

24 MR. REABE: Yeah, and I know I've used up a
25 lot of my time here. I don't mean to -- you know, on

1 the same -- along the same lines, we're talking a lot
2 about unmanned aerial vehicles, but the aerial --
3 National Agricultural Aviation Association, that
4 industry is working with stakeholders within the
5 current industry of manned aircraft to start
6 developing autonomous systems for the manned aircraft.

7 And, you know, we would -- our industry would
8 never expect to be able to walk into the EPA's Office
9 of Pesticide Programs and say, hey, we have an
10 autonomous spray system, product only comes out under
11 these following parameters, and, you know, now we
12 don't think that we'd have to have any drift risk
13 assessments done.

14 I think the issue here is is that because the
15 science hasn't been perfected in the unmanned vehicles
16 in these platforms that it's a cost of entry issue,
17 but I don't know that the cost of entry should really
18 have much to do with what the actual requirements are
19 to safely do it.

20 MR. MESSINA: Yes, thank you.

21 MR. KEIGWIN: All right, thanks, Damon.

22 Lauren?

23 MS. LURKINS: Thank you. Lauren Lurkins with
24 the Farm Bureau. I want to go back to -- well, first
25 of all, I just want to say I appreciate the

1 information from both OPP and then the states, the
2 AAPCO effort on emerging technologies. It's really
3 good to know that, you know, even given the comments
4 about not being as flexible within the Government as
5 we are out in private industry, it's really great to
6 know that you all are looking and forecasting ahead.

7 I want to sort of build off a comment from
8 not the most recent one but the one before that,
9 looking at the label technology. I think from, you
10 know, my perspective in working with a variety of
11 growers, I think that the electronic label approach
12 will be a really cool solution for a lot of different
13 growers, but when I look at the way that we
14 communicate to our growers right now at a state farm
15 bureau level and then I would guess our peers at
16 American Farm Bureau would say the same thing, we
17 usually do have to use every bit of technology from
18 paper, newsletters, all the way to text messages and
19 radio and social media. So we try to reach people at
20 various levels of willingness and understanding of
21 that technology.

22 So I do think it's probably meeting each kind
23 of grower where they are at and some sort of mixture
24 of -- at least in the beginning -- technology as well
25 as those hard copy on the side of the product. And

1 maybe it could be done in a phase where you have a
2 relatively simply label and you're using that as you
3 roll that technology out to watch it sort of be
4 adopted in the grower community.

5 In addition to the farmers sort of being at
6 various levels of wanting to adapt to that technology,
7 I do think there's quite a few concerns from, you
8 know, not being a regulator myself but working with
9 several at the state and federal level. I do think
10 there are a lot of regulatory questions that come
11 about, you know, the state approvals at different
12 times. In the State of Illinois, we've seen quite a
13 bit of special local needs labels that have changed,
14 even within, you know, our Director of Agriculture
15 making some additional changes to that.

16 So I would just say that, you know, trying to
17 make sure that whatever -- whatever combination of
18 technology is used that from a regulatory side you try
19 to iron that out because I think our growers and the
20 commercial applicators are all very concerned on the
21 interpretation and the enforcement at the end of the
22 day on all of these labels. So I just want to sort of
23 highlight both that grower mentality and also the
24 concerns from a regulatory enforcement and
25 implementation side.

1 MR. MESSINA: Great. Thank you.

2 MR. KEIGWIN: Thanks, Lauren.

3 Dan Kunkel.

4 MR. KUNKEL: Yeah, thanks, Rick.

5 I have two questions. The first is for Liza.
6 We work with specialty crop growers, and I always see
7 this, especially the unmanned aircraft, as a very
8 important tool for the specialty crop growers. So I
9 was -- my question is when you did this survey, and
10 I'm not sure if this is one of the questions you
11 asked, but did you get a feel for are the growers
12 really asking for this? I know this is still a
13 relatively new technology, but is there a lot of push
14 from the growers that they want to use this technology
15 for the plant protection?

16 MS. TROSSBACH: Thanks for the question. The
17 survey didn't ask that specifically. This was the
18 survey of the pesticide regulatory officials, and
19 their viewpoints on UAVs and how it implements or
20 impacts their programs. I will say that just based on
21 the conversations that we've had about the UAVs and
22 the questions that states are getting, they seem to be
23 getting more questions from commercial businesses that
24 want to utilize this technology to make very specific
25 types of applications, you know, to Christmas trees or

1 on forestry situations, et cetera.

2 So I don't have any direct data about how
3 much of that is coming from the grower community and
4 those from monocrops, but I can certainly take that
5 suggestion back to the Technology Workgroup. It
6 sounds like that may be something that they want to
7 consider, you know, as they move forward and address
8 the issue, and --

9 MR. KUNKEL: Sure.

10 MS. TROSSBACH: -- to see how they may be
11 able (inaudible) that group, so I appreciate that.

12 MR. KUNKEL: Yeah, thanks, Liza. And I'm
13 actually a little bit surprised because, you know, we
14 have small plots, like cranberry beds and things like
15 that, and I'm not really getting a lot of information
16 from our stakeholders that they're pushing and asking
17 for this type of technology.

18 And that kind of leads to my second question
19 in that we do work with Canada quite a bit, and we
20 know in Canada they're also looking at, you know,
21 generating data, looking at information they need to
22 allow UAVs to be put on product labels. So my
23 question -- my second question is for Ed, and what's
24 the interaction with Canada and even OECD with regards
25 to some of the guidance that you're looking at for

1 these types of emerging technology pesticide
2 applicators. Thanks.

3 MR. MESSINA: Yeah, thanks. And we've worked
4 with OECD and Canada. In fact, OECD put out their own
5 survey for OECD members about how each country was
6 dealing with UAVS. And it really runs the gamut.
7 Some countries have said absolutely no use, and other
8 countries have said, yeah, they're fine, they're just
9 sort of like any kind of aerial equipment and we're
10 not going to even do any additional sort of data call-
11 in. So as you would expect, the U.S. is sort of in
12 the middle, you know, making sure that we work with
13 individual registrants and users.

14 You know, the other thing in terms of
15 responding to your first question to Liza, as Liza
16 pointed out, the survey was done for state lead
17 agencies. The first question was, Has your state
18 received any requests to apply pesticide products
19 using UAVs, and 74 percent of the states had indicated
20 that, yes, they had at least had inquiries for UAV
21 requests.

22 So I think this is an area that the states
23 are definitely getting questions from, but I do think
24 it's still in its nascent phase, meaning we're not
25 seeing, as Damon pointed out, the requests for the

1 giant UAV sort of cropduster to go over, you know, the
2 cornfield. It's really the niche areas, hard-to-get
3 terrains, like a wetlands for mosquito control or a
4 high-terrain, cliff area for weed control or a
5 forestry sort of application.

6 But, again, you know, it's an example of a
7 thing that didn't exist when the labels were written
8 that now exists, and so how does this thing fit into
9 our labels and our current guidances and processes?
10 And as an agency, how do we make sure that we're
11 keeping an eye out for that and encouraging the new
12 technologies which will help growers but also making
13 sure that they are safe from the public health
14 standpoint.

15 MR. KEIGWIN: Charlotte Sanson.

16 MS. SANSON: Thanks, Rick. It's Charlotte
17 Sanson. I have a question on what EPA's position is
18 on some of the new targeted technologies. I know
19 we've been talking a lot about UAVs, but when you're
20 looking at some of the precision technologies that are
21 used rather than an application that would be across
22 all acres or large acreage, you know, these tools
23 place the pesticides where it's needed on the fields
24 and not in a broadcast type sense. So I was wondering
25 if you explored that scenario and how you're looking

1 at that while using a risk-based approach.

2 MR. MESSINA: Yeah, great question. Yeah, I
3 mean, my personal opinion is that, you know, UAVs may
4 not be as ubiquitous in the future as sort of these
5 miniaturized smart tractors, smart spray rigs, in part
6 because it takes a lot of energy to sort of lift that
7 UAV off the ground. And if you don't need to use all
8 of that energy to lift something off the ground
9 because there's something in the field that's slowly,
10 you know, moving or, you know, using its own sort of
11 momentum to kind of move the field, it's a more
12 efficient and less costly way to apply the particular
13 pesticide.

14 But, you know, that remains to be seen. You
15 know, there's arguments to be made on the other side
16 that the UAVs will become more and more useful as the
17 technology gets cheaper and cheaper.

18 And then on the spot spray issue, I think I
19 sort of teed that up, and I agree, it's sort of, you
20 know, what does the label say in terms of label rates
21 and what does that mean when you're not -- when you're
22 doing a spot spray versus when what was contemplated
23 was sort of a broadcast type of application. So
24 that's an exact example that you've identified that I
25 would say is something that the agency needs to

1 consider and get ahead of, and we need more
2 conversations with registrants who are looking to add
3 that type of process to the label, and then we can do
4 the risk/benefit analysis.

5 Presumably, you know, if you're using less
6 pesticide then you are reducing risk, but maybe you're
7 doing multiple spot sprays over different applications
8 and different times, and maybe you're spot-spraying
9 more, so, you know, what is the calculation there and
10 do those sort of scenarios sort of look like.

11 So I hope -- I probably answered your
12 question as best as I could. I don't know if Rick has
13 anything to add as well, or any others on the phone,
14 or do you?

15 MR. KEIGWIN: Not at this -- I don't at this
16 time.

17 MR. MESSINA: And happy to talk offline. And
18 happy to talk offline about it if you'd like.

19 MS. SANSON: Yeah, exactly. Probably will do
20 so.

21 MR. KEIGWIN: Great. Thanks, Charlotte.
22 Mano?

23 MR. BASU: Thanks, Rick. One comment and a
24 question. The emerging technologies are critical for
25 evolution of agriculture and, you know, some of these

1 emerging technologies that we heard today and those
2 which are coming up are based on precision application
3 of pesticides. And these prescriptive precision
4 application offer safe use and can lead to reduced
5 risk and reduced exposure.

6 You know, there's a lot of training and
7 education that needs to be provided and the benefits,
8 so that is again something to consider and think about
9 on the benefits of these emerging technologies. And
10 it is good to know that EPA is engaging with the
11 technology developers for reviewing these technologies
12 and on safe use before moving forward.

13 One question I have as we heard a lot about
14 EPA's approach to labels and, you know, the need to
15 accommodate emerging technologies, and how will the
16 agency adopt such technologies? Is there a -- I don't
17 want to call it a decision-tree, but is there a
18 approach in determining the regulatory process,
19 regulatory approval, review that is needed for some
20 specific technologies which, you know, the risk is
21 negligible or may not require much of regulatory
22 intervention versus others where it may have to go
23 through a more detailed regulatory evaluation?

24 MR. MESSINA: Yeah, this is Ed, I'll take
25 that. I mean, my first response is, you know, we have

1 our own ideas within EPA, but I think that's why I
2 personally and I know Rick wanted to tee this up for
3 this group because I think all the answers don't
4 necessarily need to come from OPP, and certainly
5 reaching out to the constituencies like yourself who
6 are experiencing this sort of, you know, on the ground
7 is why we're teeing this up for this group as the
8 potential, you know, for advising the agency on how we
9 should proceed here.

10 So the question that I had in my slide is,
11 you know, how should EPA obtain a greater
12 understanding of the use of these emerging
13 technologies and how are the risks different from the
14 current technologies and then how do we need to change
15 our methods and our policies. That is the question,
16 and I would say, you know, as OPP within the walls of
17 the organization with the nine divisions that are
18 supporting the OPP IO, there's lots of ideas around
19 that, and we'd definitely love to hear your ideas on
20 that.

21 MR. BASU: Thanks, Ed. And, yeah, I mean,
22 the technology developers have the data and
23 understanding of these technologies, and that's
24 exactly what we are looking forward to close
25 interaction, engagement with the broader stakeholders,

1 regulators, users, technology developers, everyone
2 together. So I appreciate your feedback. Thank you.

3 MR. KEIGWIN: I think that may -- so any
4 other members of the Committee who have questions for
5 either Ed or Liza?

6 MR. MESSINA: Did Charlotte have a last
7 question?

8 MR. KEIGWIN: Oh, Charlotte, did you have
9 another question?

10 MS. SANSON: Yeah, thanks. Just to piggyback
11 off of what Mano was just talking about, you know,
12 there is -- I think one thing that I just wanted to be
13 sure is considered is there is a stewardship component
14 to these new technologies, you know? The whole point
15 of them, you know, using some of these new
16 technologies is to help make application of pesticides
17 more prescriptive and, you know, somewhat reduce risk.
18 So I think, you know, looking at the stewardship side
19 of it can be quite exciting. So just a comment.

20 MR. MESSINA: Yes, and I would add -- and I
21 want to make sure that EPA doesn't get in the way of
22 those stewardship desires, and so, again, making sure
23 that the labels are written in a way that encourages
24 these technologies so that we are potentially using
25 less resources and also making sure that public health

1 is protected is sort of the balancing act that we'd
2 like to talk with you about at the PPDC and offline if
3 folks are interested. So thanks for your comment.

4 Rick, I think Liza had a comment, too.

5 MS. TROSSBACH: Yeah, thank you, Ed, just one
6 final comment. You know, we started out talking about
7 UAVs and UASs and the multiple applications, and most
8 of the conversation has focused on the agricultural
9 use of UAVs and UASs, and I just want to kind of keep
10 in mind for the group that while it's possibly not
11 widespread there are certainly non-ag applications,
12 which is basically anything not grown in a field. And
13 so I just want to, you know, just kind of encourage
14 EPA to take those kind of applications into
15 consideration or the potential for those in the
16 future. And then also for, you know, PPDC as it moves
17 forward in considering how it may want to address or
18 how else, you know, maybe EPA needs to look at these.
19 So just a final comment, thank you.

20 MR. KEIGWIN: Okay. I think Damon might have
21 another comment.

22 MR. REABE: Yeah, are you able to hear me,
23 Rick?

24 MR. KEIGWIN: Yeah.

25 MR. REABE: Can you guys hear me? Sorry.

1 MR. KEIGWIN: Yes, we can hear you.

2 MR. REABE: I'm sorry. Thank you. I
3 couldn't remember if I was on mute or on unmute.

4 You know, as we're talking about this, it's
5 gotten me thinking. The emerging technologies is a
6 subject matter that is maybe going to get us really
7 revolutionizing potentially how EPA does business.
8 And I'm just thinking back to the National Ag Aviation
9 Association's interaction over the last several years
10 on spray drift risk assessment and, you know, we go
11 through some very laborious and painstaking processes
12 to account for technologies that have been in
13 existence for decades in the writing of labels.

14 So I would like to make sure that -- and by
15 the way, the EPA has been extraordinarily responsive,
16 has been wonderful to work with, but I think under
17 this banner of discussion I think a big part of the
18 focus should be modifying labels and use and
19 instructions to accurately account for existing
20 technologies, and I can take it past aerial
21 application into hooded sprayers in agricultural
22 settings. There's persistent applications that are
23 being done by air. All of these various novel
24 technologies that are available to aerial applicators,
25 these types of things are extraordinarily slowly being

1 considered in risk assessments, and this might be the
2 venue for adapting to changes that have already taken
3 place much quicker.

4 MR. MESSINA: Yeah, thanks. Thanks, Damon.
5 I definitely don't disagree with that comment. I
6 think there's lots of areas where, you know, we can
7 examine our current practices and make sure that
8 they're useful and having the desired result. I think
9 the emerging technologies I think is an area that just
10 makes it even more acute, meaning the odds of our
11 policies being sort of tangent to what the needs are
12 really come forward in emerging technologies. But I
13 think your point is a good one, which is there's
14 probably some current technologies where our policies
15 need to be examined, so appreciate that comment.

16 MR. REABE: Thanks.

17 MR. KEIGWIN: Yeah, it looked like Mano had
18 another comment.

19 MR. BASU: Thank you, Rick. Mano here from
20 CropLife America. It's not related to UAVs, drones,
21 or the label, and I don't know if this is the right
22 session or if you have a different session to talk
23 about the proposed changes to plant-incorporated
24 protectants, plural, for emerging technologies. Is
25 there a timeline of when these rules or proposed

1 changes are coming for plant-incorporated protectants.

2 You know, the executive order on
3 biotechnology urges streamlining of government
4 processes. If EPA is considering a confirmation
5 process for a proposed exemption, this process does
6 not have to be duplicative of any process at USDA. I
7 was wondering if, Rick, you can make any comments.

8 MR. KEIGWIN: What I would say, Mano, is that
9 we do have a proposed rule in interagency review at
10 OMB on this topic. Once that interagency review
11 concludes, we statutorily need to do what's called a
12 FIFRA review by USDA and the FIFRA Scientific Advisory
13 Panel with a concurrent sharing of the draft with some
14 of the designated congressional committees. Once that
15 period ends, we would issue a proposed rule for public
16 comment.

17 Right now, we're anticipating that that would
18 be sometime late spring, early summer. But beyond
19 that, I don't have any more details.

20 MR. BASU: That is great. Thank you very
21 much, Rick.

22 MR. KEIGWIN: Any other questions or
23 comments?

24 Sheryl Kunickis is asking what rule. I
25 believe Mano was talking about a rule that's at OMB on

1 plant-incorporated protectants as is discussed in the
2 OMB LOCUS (phonetic) system.

3 Any other comments or questions?

4 (No response.)

5 MR. KEIGWIN: All right, if not, thank you,
6 Ed and Liza, for chairing that session.

7 So that is our last scheduled session of the
8 day other than the public comment period. Shannon, I
9 know we're about 30 minutes ahead of schedule, but I
10 know we had two public commenters. I wonder if they
11 are available currently.

12 MS. JEWELL: I shot them both an email, so I
13 would say if we call them out they may well be there
14 to...

15 MR. KEIGWIN: Okay, I believe Dave Tamayo was
16 one of the people that had requested public comment.
17 Is Dave on the line?

18 Dave Tamayo, are you on the line?

19 (No response.)

20 MR. KEIGWIN: And then the second public
21 commenter, I believe, was Ray McAllister. Ray, are
22 you available?

23 MR. JEWELL: Rick, Dave is on.

24 MR. KEIGWIN: Okay, great. Dave Tamayo, the
25 floor is yours.

1 Perhaps while we check on them, I just was
2 curious if either Ruben Arroyo or Dominic LaJoie had
3 been able to join us. They had not been available for
4 our sessions earlier today.

5 (No response.)

6 MR. KEIGWIN: Let's try again. Dave Tamayo,
7 are you online and able to make your comments?

8 (No response.)

9 MR. MESSINA: Hey, Rick, I think Dave
10 was in the attendees list, which means he was on his
11 computer, but I think Troy and Carla are making sure
12 that he has the phone number to be able to speak.

13 MS. JEWELL: Thank you, Rick. I actually
14 sent it to him, but he emailed that he heard he was
15 unmuted but the mic doesn't seem to be working for
16 him. Okay, so, Dave, if you can hear, you need to
17 call the number that I sent you. I'll call it again
18 right now. Give us just a minute.

19 (Brief pause.)

20 MS. JEWELL: So I did not receive an email.

21 Hello? I didn't receive an email back
22 from -- hi.

23 So I (inaudible) received an email back from
24 Ray, although I do know that Dave is trying to get
25 online, on the phone line. Dave may have stepped away

1 for a minute.

2 Oh, here's Ray. He's on the phone line but
3 he's muted and waiting for his turn.

4 MR. KEIGWIN: Okay. If we're able to unmute
5 Ray, we'd have him make his comments.

6 MR. TAMAYO: Okay, I'm going to get away from
7 my computer. Can you hear me now?

8 MR. KEIGWIN: Oh, there's Dave. We can hear
9 you now, Dave.

10 MR. TAMAYO: Sorry.

11 MR. KEIGWIN: We're running ahead of
12 schedule, so you had a comment.

13 MR. TAMAYO: Okay, so, yeah, I had emailed
14 both on the COVID response -- hello?

15 MR. KEIGWIN: Go ahead, Dave.

16 MS. JEWELL: You may need to mute your
17 computer speakers.

18 MR. TAMAYO: Yeah, I walked away from them.
19 I'm in a completely separate room now. Is it working
20 okay now?

21 MS. JEWELL: Sounds good.

22 MR. KEIGWIN: Yeah.

23 MR. TAMAYO: Okay. All right. Yeah, I had
24 emailed before about both the COVID-19 and EPA's
25 emergency response. I had some specific concerns

1 about the COVID-19, the disinfectants that are -- some
2 of them that are on the list. We're particularly
3 concerned -- I'm with the County of Sacramento
4 Stormwater Program and also California Stormwater
5 Quality Association. And we're stormwater agencies.

6 And we're concerned about pathways of getting
7 toxic disinfectants into stormwater. We're very, you
8 know, cognizant of the fact that, you know, people
9 need to use disinfectants for surfaces that are
10 frequently touched, but we're very concerned about the
11 potential of things that are being used over wide
12 areas and perhaps unnecessarily.

13 You know, if somebody's doing a whole plaza
14 or a bunch of sidewalks or stairwells where people
15 aren't going to be touching or licking those surfaces,
16 we're very concerned about unnecessary uses on those
17 surfaces, so we'd like there to be some sort of
18 guidance to consumers and also working with the
19 states, trying to get people to use it where it's
20 actually going to be effective, and then also being
21 EPA really considering what are things that if they're
22 widely used on impervious surfaces throughout urban
23 areas, what is the effect on water quality through
24 runoff or washing it off into receiving waters?

25 And we understand, if it's really necessary,

1 it's really effective, there's an emergency going on,
2 that's fine. But if it's just overreaction, we'd like
3 there to be information to discourage people from
4 using it where it's not really going to have the
5 intended effect.

6 The other thing, so more on the emergency
7 preparedness, I think, you know, just sort of
8 expanding on what I said about the specific concerns
9 about some of the things that are being used for
10 COVID, when there's any sort of emergency, making sure
11 that there's information online, both for the states
12 and licensees and consumers, to point out, you know,
13 good practices for using these and then also pointing
14 out that there are bad actors out there, people that
15 sort of take advantage of the public's fear and sell
16 services that are either -- that may be even
17 unlicensed or against the label and cautioning the
18 public to be very careful about making sure that if
19 they're hiring somebody or buying some sort of device
20 that it's something that's not going to be
21 overapplying or misusing chemicals because -- and I've
22 -- we've seen advertisements for things where it's not
23 really even clear that somebody is even authorized --
24 you know, licensed -- to make these applications.

25 And, so, we'd like there to be good,

1 trustworthy information on your websites and other
2 channels of communication in supporting the states in
3 this as well to prevent overuse and abuse of this
4 because of the -- taking advantage of people's fears.

5 Anyway, thank you very much. Thanks for your
6 patience.

7 MR. KEIGWIN: Thanks, David.

8 And for everybody, for both of the points
9 that Dave was making, I want to -- and we can send
10 this around to all the members as well -- but a couple
11 of weeks ago, EPA and CDC jointly developed two pieces
12 of guidance to assist people who have to manage public
13 spaces, businesses, schools, or homeowners for
14 deciding what they needed to do within their homes two
15 documents. One is a cleaning and disinfecting
16 decision tool, and then the second is a more detailed
17 guidance document with additional resources. The
18 decision tool is a two-pager, really one side or one
19 page on both sides.

20 And among other things, what it has in it is
21 a -- a step-wise decision tool that somebody can work
22 through, and, for example, it talks about whether or
23 not the area can be treated is indoors or not, and if
24 it's not, there's a recommendation about maintaining
25 existing cleaning practices. And then if the surface

1 is indoors, has the space been occupied within the
2 last seven days, and if not, then the recommendation
3 is that the area will only need routine cleaning.

4 And then it just keeps graduating down to,
5 you know, is it a frequently touched surface, yes or
6 no, and then there's guidance where you go there, and
7 then finally the type of surface. So we do encourage
8 -- and I know both we and CDC when we get these types
9 of questions do point people to the decision tool, A,
10 to prioritize when they choose to use a disinfectant
11 for those scenarios when it may be most needed in
12 those scenarios where just a general cleaning as Anita
13 was referring to earlier in today's meeting might be
14 an appropriate place to go. But, Dave, thank you for
15 your comments.

16 Is Ray McAllister --

17 MR. TAMAYO: Well, I'll try and share that
18 information with the rest of the stormwater community.

19 MR. KEIGWIN: Great. Thanks, Dave.

20 Is Ray McAllister now available?

21 MR. MCALLISTER: Yes. Can you hear me?

22 MR. KEIGWIN: Yes, Ray. Go ahead.

23 MR. MCALLISTER: Okay. I have comments on
24 two subjects, the first one, with a stretch of the
25 imagination, pertains to emerging technology. As we

1 have all been forced to work remotely, virtually, and
2 electronically, OPP has adapted quickly to accepting,
3 evaluating, and processing applications without the
4 exchange of physical documents. There are a few
5 situations which remain where paper actually has to
6 change hands, and we're working together on ways to
7 improve or ways to move those situations to virtual
8 platforms, but some of the state pesticide regulatory
9 authorities lag behind in this regard, still requiring
10 paper submissions for pesticide regulatory actions,
11 still requiring payment of fees by paper checks. This
12 has caused problems and frustrations for many during
13 the pandemic when physical offices have been closed
14 for the most part.

15 We would encourage AAPCO to work together
16 with the EPA and across all states to move such
17 bureaucratic processes to electronic/virtual platforms
18 as quickly as possible. We feel that progress in this
19 regard will have significant benefits long after this
20 pandemic is just an unpleasant memory.

21 The other comment relates to an executive
22 order that was signed yesterday by President Trump.
23 It directs federal agencies to address the COVID-19
24 economic emergency by modifying regulations and other
25 requirements that may inhibit economic recovery. OPP

1 has done an excellent job in their quick response to
2 the health emergency of COVID-19, and I wanted to ask
3 how stakeholders might provide input into the agency
4 on changes to regulations administered by OPP that
5 would be compatible with the intent of the
6 presidential executive order to encourage or at least
7 not inhibit economic recovery. And I'll conclude
8 there.

9 MR. KEIGWIN: Thanks, Ray. I don't know that
10 the agency has decided on how it will solicit feedback
11 broadly, but we are always interested in hearing
12 stakeholder views and would invite you to provide any
13 suggestions you might have to the agency.

14 Okay. Shannon, did we have any additional
15 people request to make a comment today?

16 MS. JEWELL: (Inaudible).

17 MR. KEIGWIN: If not, we'll give everybody
18 about 40 minutes back to their day. Thank you all for
19 today and working with us with this technology. This
20 is new to many of us. Special thanks to Carla and
21 Shannon and Troy and Clive for helping to manage all
22 of us through this platform for holding this meeting.
23 I think at our height we had upwards of 250-plus
24 people participating, which in some respects is more
25 than what we've had when we meet in person, but I also

1 know the value that we all have when can be together,
2 but I'm glad we could have this meeting in a way that
3 we could all continue to be safe.

4 So we will start again tomorrow at 10:00
5 Eastern. Special thanks to our West Coast friends who
6 were joining so early, and have a good evening, and we
7 will talk to you all tomorrow. Have a good evening.

8 (Multiple simultaneous sign-offs.)

9 (Meeting adjourned.)

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