

UNITED STATES DEPARTMENT OF AGRICULTURE

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NATIONAL ADVISORY COMMITTEE ON
MICROBIOLOGICAL CRITERIA FOR FOODS

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PLENARY SESSION

+ + + + +

June 4, 2013
10:17 a.m.PPIII
355 3rd Street, S.W.
First Floor (Auditorium)
Washington, D.C.

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U.S. Department of Agriculture

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DR. ALISON O'BRIEN
DR. WILFREDO OCASIO
DR. MICKEY PARISH
DR. SALINA PARVEEN
DR. RUTH PETRAN
DR. JENNIFER QUINLAN
MS. ANGELA RUPLE
DR. STACEY SCHULTZ-CHERRY
DR. ROBERT SEWARD
DR. ROBERT TAUXE

FSIS:

DR. UDAY DESSAI

ALSO PARTICIPATING:

DR. CARL SCHROEDER

I-N-D-E-X

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

2 (10:17 a.m.)

3 MS. RANSOM: Okay. I'll just make a quick
4 announcement. We have some table mikes here. Not
5 everyone has one. If you push the button in front,
6 you'll mute it. So, let's see, go ahead everyone and
7 mute while you're not speaking, and your green circle
8 will turn red when you mute it. Okay. And we also
9 have a number of handheld mikes around the room if you
10 need to use those.

11 Okay. Good morning everybody. I'd like to
12 welcome you to today's plenary meeting of the National
13 Advisory Committee on Microbiological Criteria for
14 Foods, or NACMCF. I'm Gerri Ransom, the NACMCF
15 Executive Secretary with FSIS Science Staff. We're
16 going to start off today by hearing from our Chair.
17 I -- I'm going to turn the floor over to our Chair.
18 And our Chair is Under Secretary -- USDA Under
19 Secretary for Food Safety, Dr. Elisabeth Hagen.

20 DR. HAGEN: Good morning. Can everybody
21 hear me? Hi, it's good to see everybody. Thank you
22 for coming and welcome to today's plenary session.

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1 This is the first full meeting of our 2013-15
2 Committee, and I am very pleased to be welcoming 22 of
3 you who are new to the Committee and 8 returning
4 members. I think we're going to have a chance to
5 visit. I'm a little overscheduled this morning. I
6 was hoping that I'd have a chance to really just chat
7 and meet-and-greet with some of the new folks, but I
8 think we're going to do that tomorrow. Gerri's got
9 some time on the schedule to do that tomorrow. So,
10 thank you every one of you. I know you all have very
11 busy day jobs, some of you have multiple busy day
12 jobs, and I really appreciate you coming and
13 participating with us for this term and lending your
14 expertise to this Committee.

15 So I've been sharing NACMCF now with Mike
16 since 2011, and I've really come to have a real
17 understanding, but also a deep appreciation for just
18 how important the work of this Committee is and just
19 how dedicated the people are who we get on this
20 committee. This is one of the most respected
21 scientific advisory committees out there. I feel very
22 comfortable saying that. And it's because we have

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1 this extremely hardworking and very dedicated group of
2 scientists and professionals. And it's also because I
3 think the work that you all do here goes well beyond
4 the walls of these meeting rooms that we congregate
5 in. It's directly applied and it's put to use across
6 the Federal Government to make better foodborne
7 illness prevention policy.

8 So, you all know food safety microbiology is
9 quite a complex challenge. I'm not sure where to
10 ideally situate this thing. As long as we have 1 in 6
11 Americans getting sick from the food they eat, we have
12 a lot more work to do on this Committee and in the
13 agencies that this Committee supports. It takes
14 real -- a real commitment to be able to get somewhere
15 with this challenge. It takes commitment to
16 prevention, to public health, if we're really going to
17 make any headway. So this kind of commitment,
18 combined with effective federal agencies and cutting-
19 edge science, are what we need to be able to build the
20 strong programs that support that type of policy.

21 So we're all here, and this Committee was
22 established so we could help build and maintain an

1 integrated national approach to food safety, one that
2 goes from farm to table, and one that truly protects
3 consumers. Over the next couple of days, you're going
4 to begin working on two issues. The first is going to
5 be control strategies for reducing foodborne norovirus
6 infections and the study of microbiological criteria
7 as indicators of process control and insanitary
8 conditions. Both of these issues that you're going to
9 be undertaking can improve the way that we target
10 foodborne pathogens and prevent illness. And both can
11 help our industries address very real challenges in
12 today's food safety system. Ultimately, most
13 importantly, both of these studies can be used at the
14 federal level to make decisions that will better
15 protect Americans from foodborne illness.

16 So on Norovirus first, human noroviruses, as
17 you all well know, are now the most commonly
18 identified cause of foodborne outbreaks in the United
19 States, and yet we really don't know that much about
20 how and why. We have a lot that we still need to
21 understand to better protect public health, including
22 simple things like what the overall burden is, how

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1 they're transmitted and how they contaminate food, and
2 what the best practices are to control them. And we
3 definitely believe that there's enough expertise in
4 this room, there's absolutely enough expertise in this
5 room, that we can make some real headway on this
6 issue.

7 And on microbiological criterion, the
8 Department of Defense, when they're -- when buying
9 food for our military personnel around the world,
10 evaluates whether the food produced in establishments
11 is safe and wholesome. Microbiological criteria can
12 aid in these decisions, but there's no standardization
13 or consensus on acceptable microbiological levels in
14 different product classes in the United States. So we
15 also believe here that you can greatly help in
16 addressing this issue.

17 And if there's one tough thing that's been
18 happening across -- if there's one thing that's been
19 happening across the country when it comes to the food
20 safety regulatory landscape, it's this: we're all
21 asking tough questions. Mike's team is asking tough
22 questions, we are, and certainly all of you who work

1 in academia and in the private sector, are also asking
2 these kind of questions. In our world, the food
3 safety world, we're asking things like, are we
4 reacting to food safety problems or are we actually
5 preventing them in the first place? Are we effective?
6 Are we doing this as -- in the most efficient way
7 possible? Are we as coordinated as we need to be in
8 our approach? Are we using the best available
9 science, and making the best use of our resources?
10 Certainly all of us who work in federal agencies have
11 had to ask that question over and over again, and
12 particularly in light of the events of the last year.
13 Are we making the best use of our resources? Can we
14 be doing more with less? Are we doing the best that
15 we can, given the technology that we have? Are we
16 ready and equipped for the 21st century food system?

17 So USDA, FDA, and other food safety
18 stakeholders are asking if we're doing all that we can
19 to protect public health through food safety, and
20 we're always searching for solutions. And that's
21 where you all come in. That's why you're here,
22 because you, on these issues, and on the others that

1 will come to you during your time on the Committee,
2 are going to help us answer these questions. So some
3 of you have heard me say this before, but I think it's
4 important enough to repeat. The work that you're
5 doing here on this advisory Committee, this matters.
6 The work that we do in food safety every day in our
7 agencies matters, and people need to hear that. As I
8 said, you all have very busy professional lives.
9 You're all very accomplished. It was competitive to
10 get into this Committee. We know that you are able to
11 contribute elsewhere, and that you are, and we just
12 want you to know that it matters. It matters to me,
13 it matters to Mike, it matters greatly to our
14 Secretary, Secretary Vilsack and Secretary Sebelius,
15 and obviously it matters to the American people that
16 we're here and charged with protecting from foodborne
17 illness.

18 So just, that bears repeating, and I don't
19 want you to ever think that we take that for granted.
20 We really appreciate the commitment that you're
21 making. So I thank you again for serving as a member
22 of NACMCF. And you've taken on this really important

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1 advisory role. You've got a key part to play as we
2 build this stronger food safety system. And thank you
3 again for your time and your commitment to public
4 health.

5 And I'd like to turn it over to my Co-Chair,
6 Mike Landa, the Director for FDA's Center for Food
7 Safety and Applied Nutrition. Oh. You have one.
8 Okay. I'll turn mine off.

9 MR. LANDA: The question is, does it work?

10 UNIDENTIFIED SPEAKER: Yes.

11 MR. LANDA: I guess so. Thanks Elisabeth.
12 Thank you very much. Good morning, and again I'd like
13 to welcome our members and guests to the plenary
14 session. NACMCF is an extremely dedicated group, and
15 I want to express my appreciation and thanks for your
16 time and your willingness to serve and to work hard,
17 perhaps harder than you anticipated, and I guess
18 you'll see soon enough, to share your food safety
19 expertise, which is certainly more than adequate for
20 the task before you.

21 I've participated in NACMCF since 2010. I
22 come at the work of the Committee from a slightly

1 different perspective because I'm a lawyer by
2 training, by practice most of my career, rather than a
3 scientist. And so, naturally enough for me, the first
4 thing I look at for a food safety regulatory agency,
5 or any other regulatory agency, is the law, statute,
6 followed by regulations. And also, of course, have to
7 look at science and policy. And I'll borrow something
8 you may have heard -- some of you may have heard me
9 say before from a former colleague of mine, Anne Wion,
10 who's a -- for many years a Deputy Chief Counsel for
11 Regulations and Hearings at FDA's Office of Chief
12 Counsel, and she was thinking of a agency like FDA,
13 the USDA is resting on a three-legged stool: one leg
14 is law, one is science, and one is policy. Of course,
15 for the lawyers, the most important leg is the law;
16 for the policymakers, the most important leg is the
17 policy; and for the scientists, it's the science.

18 I'm a lawyer, and perhaps I'm not being true
19 to my profession, but I actually think in this context
20 the most important leg is the science, mostly because
21 the cost of getting it wrong is so high. If there is
22 an interpretation of the law that's either unduly

1 generous or unduly ungenerous, someone will sue. The
2 court will correct the Agency's interpretation.
3 Policy mistakes over a -- some period of time are
4 almost inevitable, but if you get the science wrong,
5 your credibility is undermined, your foundation is
6 undermined. So I really do think it's the most
7 important part of that three-legged stool. And that,
8 of course, makes what you do all the more important
9 for our -- for all the agencies concerned.

10 As Elisabeth mentioned earlier, we are
11 restarting the two subcommittees with newly assigned
12 Chairs and a number of new members, making your tasks
13 perhaps unusually difficult. You have to review past
14 work, assess the approach the past committees were
15 taking, and of course, move forward and deliver
16 recommendations in a fairly short period of time. But
17 your recommendations, recommendations on both the
18 control strategies for reducing foodborne Norovirus
19 infections and the study of microbiological indicators
20 and criteria as indicators of process control or
21 insanitary conditions will help inform FDA and -- as
22 well as USDA, on the best ways to address these

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1 pathogens and ultimately help reduce the number of
2 foodborne illnesses associated with them.

3 Control strategies for reducing foodborne
4 Norovirus infections is a topic of concern to the
5 first subcommittee as well as to all of us because of
6 the great proportion of foodborne illness attributable
7 to Noro. In fact, in the last couple of years, Noro
8 outbreaks have been making the news almost as much as
9 *Salmonella* and *E. coli*. Also, of course, in terms of
10 the numbers over the years, it's Noro, Noro, Noro, and
11 that hasn't changed for a long time.

12 Let's see if we can't make some progress in
13 changing it. The second subcommittee in the study of
14 microbiological criteria as indicators of process
15 control or insanitary conditions is critical to DoD,
16 but it's also important to others of us, not so much
17 because we are in the business of purchasing food,
18 some of us, at least, are not, but we are in the
19 business of regulating food in a direct way. And the
20 better the indicators we have for process control or
21 insanitary conditions, the better the job we can do at
22 regulating. So a number of agencies can benefit from

1 an interest to both charges.

2 Again, let me just say I know how hard the
3 work is, the challenges before you, the amount of
4 information that there is to sort through, and as
5 Elisabeth indicated, that this is for all of you yet
6 another duty as assigned. Although, I guess it's a
7 duty you volunteered for, so perhaps our sympathy
8 should be somewhat tempered by that.

9 Let me close by again thanking all of you
10 for the work you do and will be doing, and the future
11 contributions to the Committee. Your efforts will
12 lead to foundational work in my view. And because
13 your recommendations come from an advisory committee,
14 they'll likely become more widely and readily accepted
15 than work any single agency can do on its own. And it
16 carries of course, but I think as a general statement
17 it's true, making again the work all the more
18 important given the neutrality of the source and the
19 various perspectives that each of you bring to this
20 effort.

21 I would just like to thank Gerri Ransom and
22 her staff, before turning it over to Gerri, for

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1 pulling all the meetings together. As I was coming
2 down the subway, I was thinking that if it is true
3 that the devil is in the details, for arranging all
4 these meetings, Gerri and her staff know the devil all
5 too well.

6 (Laughter.)

7 MR. LANDA: Over to you, Gerri.

8 MS. RANSOM: All right. One intermediate
9 comment here.

10 DR. HAGEN: I just wanted to jump in too,
11 because I don't know whether I'll be here at the end
12 of this -- at the full meeting, so I wanted to also
13 thank Gerri too. I -- it's hard to imagine how an
14 advisory can be like this, even functioned before
15 Gerri Ransom. Those of you who have been around for a
16 long time know just how incredible she is and I know,
17 in terms of keeping it together for me and for Mike,
18 she's really indispensable, and Karen Thomas-Sharp on
19 her staff as well. So I just wanted to make sure that
20 I thank you before you start talking, and tell
21 everybody how wonderful we think you are --

22 MS. RANSOM: Okay. Thank you for all of

1 the --

2 MS. HAGEN: -- and embarrass you.

3 MS. RANSOM: Thank you for embarrassing me
4 and for all the praise.

5 (Laughter.)

6 MS. RANSOM: I want to reiterate that it's
7 great that we are holding our first plenary meeting.
8 It has taken a lot of work and effort on the part of
9 everyone at this table to make this happen. Now our
10 returning members know, and our new members are
11 learning that there's a lot of process to advisory
12 committees, but it's necessary for the balance,
13 transparency, and success of the Committee. So your
14 patience as we work our way through does pay off, and
15 you will see as scientific advice from your reports is
16 applied to food safety programs and as your work gets
17 published.

18 Now, I'd like to start with us going through
19 some introductions. We've done this already, but we
20 now have our guests in the audience, so I'd like to go
21 ahead. And let me start with Skip on that side and
22 let's go around the table and let us know if you are a

1 NACMCF member or what your role is here with us.
2 Thanks.

3 DR. SEWARD: Okay. Skip Seward, Seward
4 Global Consulting. I'm a member of the Committee and
5 I'll be Co-Chairing the subcommittee on -- to address
6 the questions posed by the Department of Defense.

7 DR. MBANDI: Evelyne Mbandi, member of the
8 Committee with FSIS, and I will be on the DOD
9 subcommittee.

10 DR. SCHULTZ-CHERRY: Stacey Schultz-Cherry.
11 New member, Department of Infectious Diseases, St.
12 Jude Children's Hospital, and I am a virologist.

13 DR. HOOVER: Dallas Hoover, University of
14 Delaware, Noro Committee member.

15 DR. GOMBAS: David Gombas, United Fresh
16 Produce Association, member and Chair of the Norovirus
17 subcommittee.

18 DR. MURIANA: Pete Muriana, microbiologist,
19 Oklahoma State University, new member. I'll be --

20 DR. BHUNIA: Arun Bhunia, Purdue University,
21 for microbiologist purposes. I am member.

22 DR. PARISH: Mickey Parish with FDA's Center

1 for Food Safety and Applied Nutrition, and I'm a new
2 member of the Committee.

3 LTC DOLE: I'm Lieutenant Colonel Bob Dole.
4 I'm with the Department of Defense. I'm a
5 veterinarian and NACMCF member.

6 MS. VAUGHN GROOTERS: Susan Vaughn Grooters.
7 I'm with the Center for Science in the Public
8 Interest. I'm a NACMCF member. I'm a consumer
9 representative.

10 MS. RUPLE: I'm Angela Ruple with NOAA
11 Fisheries and I'm a returning member to the Committee.

12 DR. WALKER: Calvin Walker with NOAA
13 Fisheries. I'm the Department of Commerce Liaison to
14 the Committee.

15 DR. NAUM: Marianna Naum. I'm the FDA
16 Liaison for the Committee with the Deputy
17 Commissioners Office of Foods and Veterinary Medicine
18 at FDA.

19 MR. LANDA: Mike Landa, Director, the Center
20 for Food Safety and Applied Nutrition with Food and
21 Drug Administration, the Vice-Chair of the Committee.

22 DR. HAGEN: I'm Elisabeth Hagen, I'm the

1 Under Secretary for Food Safety at USDA and the Chair
2 of many.

3 MS. RANSOM: Gerri Ransom again, Executive
4 Secretary of NACMCF and I'm with FSIS science staff.

5 DR. LIANG: Art Liang, I'm the CDC Liaison
6 for the Committee.

7 COL HILDABRAND: Colonel Brad Hildabrand.
8 I'm representing Department of Defense Veterinary
9 Service Activity, on the Executive Committee, served
10 previously from 2006, 2009 and I'm back for about the
11 last 6 months.

12 DR. NATRAJAN: Nandini Natrajan, returning
13 member of the Norovirus Committee, from Keystone
14 Foods.

15 DR. PARVEEN: Salina Parveen, University of
16 Maryland, Eastern Shore. I am a new member of the
17 Committee.

18 DR. BIRBARI: Wafa Birbari with Hillshire
19 Brands. I'm a NACMCF member with the Norovirus
20 subcommittee.

21 DR. LONERAGAN: I'm Guy Loneragan, I'm a
22 Professor of Food Safety and Public Health at Texas

1 Tech University, and I'm a new member of the
2 Committee.

3 DR. INGHAM: I'm Steve Ingham, Administrator
4 of the Division of Food Safety, Wisconsin Department
5 of Ag, Trade and Consumer Protection, new member of
6 the Committee.

7 DR. PETRAN: I'm Ruth Petran with Ecolab.
8 I'm a member of NACMCF and on the Norovirus
9 subcommittee.

10 DR. KORNACKI: I'm Jeff Kornacki, President
11 of Kornacki Microbiology Solutions, Inc. I'm a new
12 member to the NACMCF Committee and Co-Chairing with
13 Skip, the study of microbiological criteria as
14 indicators of process control or insanitary
15 conditions.

16 DR. HOOD: I'm Scott Hood with General
17 Mills, new member to the Committee.

18 DR. LINTON: Good morning. I'm Rich Linton
19 with North Carolina State, Professor of Food
20 Microbiology and Dean of the College of Ag and Life
21 Sciences, and a new member of the Committee.

22 DR. OCASIO: I'm Wilfredo Ocasio with the

1 National Food Laboratory, and a new member to the
2 Committee.

3 DR. GOODRIDGE: Larry Goodridge from the
4 Department of Animal Science for the Colorado State
5 University, and I am a new member.

6 DR. HARDIN: Margaret Hardin, IEH
7 Laboratories & Consulting Group, returning member, Co-
8 Chair of the Norovirus subcommittee with Dave Gombas.

9 DR. GLASS: Kathy Glass, University of
10 Wisconsin, Madison, Food Research Institute, Subject
11 Matter Expert for the DOD microbiological criteria
12 subcommittee.

13 DR. O'BRIEN: Hi, I'm Alison O'Brien. I'm
14 Professor and Chair of the Department of Microbiology
15 and Immunology at Uniformed Services University. I'm
16 a returning member. It's been over a decade, and I'm
17 on the Norovirus subcommittee.

18 DR. TAUXE: Rob Tauxe, Centers for Disease
19 Control and Prevention in Atlanta, returning member to
20 the Norovirus Committee.

21 DR. LABUDDE: Robert LaBudde, Least Cost
22 Formulations, a consulting company, a member -- new

1 member of the Committee, member of the -- organisms
2 subcommittee.

3 DR. QUINLAN: Jennifer Quinlan, I'm a food
4 microbiologist at Drexel University in Philadelphia.
5 I'm a new member to the Committee on the micro
6 criteria subcommittee.

7 MS. RANSOM: Okay. Thank you. I think we
8 got everyone at the table. Did --

9 Okay. I wanted to make mention that we will
10 have a public comment period later on in the program.
11 So for anyone wishing to make public comment, please
12 register outside with Karen. We'll go ahead and take
13 the comments at the end of the program.

14 Before we get to the science part of the
15 program, I want to mention a few items. This
16 Committee membership is at the front end of a 2-year
17 term and your term runs through January 15, 2015, too
18 many 15s. Our one consumer affiliate on the
19 Committee, Susan Grooters, her second 2-year term is
20 about to begin. She's on a slightly different
21 schedule than the rest of the Committee, so she will
22 be with us through June 2015. Now, the current

1 Committee charter runs through February 2015, and this
2 charter is available on the FSIS website. An item of
3 mention that I want to highlight is that we had a
4 retirement take place at NACMCF this year. Spencer
5 Garrett of the National Marine Fisheries Service,
6 Department of Commerce, retired on April Fool's Day
7 this year. Spencer --

8 UNIDENTIFIED SPEAKER: So you're still
9 waiting for him to come back?

10 MS. RANSOM: We're still waiting for him to
11 come back, yes. Spencer was a longtime member of the
12 NACMCF Executive Committee, and also a NACMCF member.
13 Spencer provided much leadership and expertise to
14 NACMCF and he will be greatly missed. Most recently,
15 Spencer chaired the micro criteria subcommittee that
16 completed the School Lunch Project for the
17 Agricultural Marketing Service and we're going to hear
18 more about that a little later on. And Spencer also
19 has initiated the work for the DOD micro criteria
20 subcommittee, which is going to be continued with this
21 Committee. Spencer was famous for running a tight
22 ship, and of course being from the National Marine

1 Fishery Service we would expect this, but he always
2 kept us on track. We wish Spencer well on his
3 retirement.

4 And he's already introduced himself, but Dr.
5 Calvin Walker is joining us from the Department of
6 Commerce, National Marine Fishery Service, and he
7 follows Spencer as the liaison role there for the
8 National Marine Fisheries Service in Department of
9 Commerce.

10 Okay. It was mentioned that for NACMCF work
11 for -- term, we heard about the Norovirus and the
12 micro criteria work for DOD. The Executive Committee
13 felt it best not to start new work projects at this
14 juncture until the Norovirus and the DOD micro
15 criteria projects were completed. We do have a number
16 of projects in waiting for NACMCF that are in various
17 stages of development.

18 I want to make mention of one charge, and
19 this is in line to be up next, but we have -- because
20 we have a lot of support and interest in this project
21 from members as well as others. This project is on
22 STECs. This is the project, virulence factors and

1 attributes that define foodborne Shiga toxin-producing
2 *E. coli* as severe human pathogens. FDA developed the
3 concept for this charge and we are planning this as a
4 joint FDA, CDC, FSIS charge. This charge will
5 dovetail with current work on -- other current work on
6 STECs. And the charge is currently being updated.

7 To give you an idea of some of the questions
8 being considered for this charge, I'll just give you a
9 few of them that we're thinking about. What defines
10 or differentiates an STEC as a human pathogen from
11 other STECs that have not caused disease? What
12 methods are available to detect STECs and specific
13 known virulence factors? I know many of our new
14 members are looking forward to this charge, and this
15 Committee has some strong expertise in this area to be
16 applied to this work, so we're looking forward to when
17 we do get to this work.

18 Okay. Now today, we're going to hear three
19 updates on subcommittee work. We have a colleague
20 here from the Agricultural Marketing Service who will
21 talk about the application of some recent NACMCF work.
22 And we also have representatives of the past Norovirus

1 and a continuing member from the micro criteria
2 subcommittee who will talk about these charges and
3 where these groups last left off. Okay. Our first
4 speaker is going to be Dr. Carl Schroeder and let's
5 see, he's around the other side, but he's got a --

6 Our entryway is a little bit narrow, but our
7 first speaker, Dr. Carl Schroeder, is from the AMS
8 Livestock, Poultry, and Seed Program. And Carl is the
9 Director of the Food Safety and Commodity
10 Specification Division. And I'll turn the floor over
11 to you, Carl. Thank you.

12 DR. SCHROEDER: Thank you. On behalf of
13 AMS, thank you for the opportunity to be here. It's a
14 real honor to speak in front of this distinguished
15 group. We received the invite from Gerri a couple of
16 months ago to come here today and speak with you and
17 she had indicated that she believed this was a really
18 good example of how the work done by this Committee is
19 translated into policies to make our food safer, and
20 we agree wholeheartedly. The recommendations that the
21 Committee made were adopted on the 28th of March 2012,
22 and within 2 months, we began implementing those

1 recommendations for our upcoming purchase season. And
2 we're quite convinced that the recommendations from
3 the Committee have only strengthened the food safety
4 of the products we purchase for the School Lunch
5 Program.

6 By way of background, the Agricultural
7 Marketing Service recently underwent a significant
8 change in two of the larger offices, the Livestock and
9 Seed Office and the Poultry Office combined. And as
10 part of doing that, AMS believed that they needed to
11 create a standalone Food Safety and Commodity
12 Specification Division. And they did that and kindly
13 invited me over from FSIS to lead that. And so that's
14 been a real pleasure. I've been there for about 6
15 months and I look forward to working with you all in
16 that capacity. My boss, Craig Morris, who is the
17 Assistant Administrator for AMS, was supposed to be
18 here today. We have a new administrator and Dr.
19 Morris is with her as she visits many of our
20 stakeholders in Iowa. So both Craig and Ms. Alonzo,
21 our new administrator, send their very best.

22 Kerry Smith, who I believe many of you that

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1 were on the Committee worked with as you were
2 developing your work on this issue, Kerry received a
3 promotion in AMS and she is now one of the managers in
4 our Office of Science and Technology. And Kerry also
5 sends her very best.

6 In the Federal Ground Beef Purchase Program,
7 AMS, in fiscal year 12, purchased approximately 145
8 million pounds of beef that goes to various nutrition
9 assistance programs, most notably the School Lunch
10 Program. And as part of that, we conducted 75,000
11 microbiological tests. We test every lot of beef,
12 approximately every 1,500 to 2,000 pounds, and so we
13 generate an enormous amount of data. We're very proud
14 of our food safety record. We believe it's especially
15 important given the population that we serve, the
16 schoolchildren, that we do it right and that we
17 constantly look for ways to improve what we do. And
18 it was with that in mind that we came before the
19 Committee a couple years ago to ask the Committee to
20 do a review of our work.

21 There's a paper outside that was recently
22 published in the *Journal of Food Protection* that talks

1 about the Committee's work on this issue, and we're
2 very happy to see that paper published. It's
3 important that we be transparent and let the larger
4 scientific and food safety community see the work that
5 you do. But I'd like to very briefly step you through
6 the three points that are in the Executive Summary,
7 which are basically the three issues that we asked
8 NACMCF to look at. Number one was, we had long tested
9 for *Staphylococcus aureus* and we wanted to discontinue
10 that testing. We didn't think those resources were
11 well spent. We went before NACMCF, NACMCF was able to
12 do a review, come back as detailed in the paper in the
13 report, really provide, I think, overwhelming
14 scientific evidence as to why it made sense to
15 discontinue testing for *Staph aureus*. And we took up
16 that recommendation, again, within a matter of months,
17 and made it-- and that saved us considerable
18 resources.

19 Another question that was before the
20 Committee was, should AMS consider the use of
21 alternative screening procedures beyond just those
22 listed in the FSIS microbiological, excuse me,

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1 *Microbiology Laboratory Guidebook*. And the Committee
2 came back and said, yes, with the very important
3 caveat that all of those methods be tested and
4 benchmarked against the FSIS *Microbiology Laboratory*
5 *Guidebook* standards. And so we worked with our
6 contract labs to do that.

7 As one example, we now allow from IEH, some
8 alternative screening methods that were vetted and
9 appear to be every bit as robust as what's described
10 in the FSIS guidebook. They -- we believe can be done
11 quicker and at less cost, which is advantageous. And
12 so we are now, based on the NACMCF recommendations,
13 allowing our laboratories to use alternative screening
14 methods, which is going to result in lower cost and
15 quicker turnaround time for our vendors.

16 The third and final issue that I'll make
17 mention of is NACMCF looked at our overall plan, and
18 one of the recommendations it made was that we
19 discontinue testing for pathogens in product that we
20 know is destined for cooking at an FSIS-inspected
21 establishment. And on its face, we agree. We think
22 that makes a lot of sense. In practice, we want to

1 make sure we get it right. There are some issues. We
2 need to make sure that we can adequately trace what
3 product is going to cook versus what is served raw,
4 and we want to take our time and make sure that when
5 we do that, we get it right. So this year, we still
6 have -- for this purchase season, we have not changed
7 that policy. However, I believe that we're moving
8 towards doing that for our upcoming purchase season.

9 But that then leads me into the final
10 bulleted item under the Executive Summary. And I
11 happen to think in reading NACMCF's work that this is
12 one of the very best recommendations. It says that
13 AMS should continue ongoing program reviews in
14 consultation with FSIS and ARS to determine if any
15 requirements need to be strengthened for supplier
16 eligibility, processing, et cetera. And that rings
17 true with us over at AMS. Again, we talked about the
18 importance of getting it right for the schoolchildren
19 that consume the product we give to them, but also,
20 based on the fact that we gather 75,000 test records
21 per year; as far as I know, that's the largest
22 microbiological testing program in the U.S. Federal

1 Government, if not the world. And I think because we
2 gather so much data, it's very important that we be
3 good stewards of those data.

4 And I'll close by saying, in the weeks
5 ahead, in fact tomorrow; we're beginning meetings with
6 all of our stakeholders. We're going to work with
7 FSIS, with ARS, with CDC, with all of our federal
8 partners. We're going to work with our industry and
9 our vendors. We're going to work with consumer
10 advocacy group stakeholders to really have a
11 discussion about our sampling program, look at the
12 NACMCF recommendations and make sure that as we move
13 forward, we continually strive to strengthen our
14 microbiological testing program. And so I look
15 forward to working with all of our stakeholders to do
16 that. And I'm hopeful that we'll have an opportunity
17 to be back here next year to give you an update on our
18 progress. So with that, again thank you very much for
19 the invitation, and we look forward to working with
20 the Committee. And thank you for all the work you've
21 done. It's been a great help to us. Thanks.

22 MS. RANSOM: Okay. Thank you, Carl, for

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1 giving us a comprehensive view of how that project
2 worked out. And yes, this is a great example of
3 showing application of the Committee work.

4 At this time, we're going to move on to hear
5 from an additional subcommittee. I'm going to ask
6 that Dr. Uday Dessai come up. Uday is from -- he is
7 the Director of the FSIS science staff in the Office
8 of Public Health Science, and he had rotated off
9 NACMCF. He was on the past Committee, and he was a
10 Chair of the subcommittee of control strategies for
11 reducing foodborne Norovirus infections and Dr. Kelly
12 Bunning of FDA served as a Co-Chair with Uday. So
13 with that, over to you.

14 DR. DESSAI: Good morning, guys. It's
15 important to mention about the AMS charge that the
16 Committee was a phenomenal force on putting the
17 existing work away and then accomplishing the AMS
18 charge in less than 6 months. So I think those of the
19 members who actually worked on the charge, worked a
20 week at a time in different locations to get this
21 charge done. And that's how we were able to finish
22 the charge well ahead of time. Now, I think we might

1 have a little technology issue here.

2 UNIDENTIFIED SPEAKER: I'm just going to
3 see if she can get it unlocked.

4 DR. DESSAI: Gerri, can you get this
5 working?

6 MS. RANSOM: Let me see if we can find
7 someone to fix that --

8 DR. DESSAI: Okay. In the meanwhile --

9 (Off the record for background discussion on
10 technical issues.)

11 (On the record.)

12 DR. DESSAI: Okay. All right, the Norovirus
13 subcommittee had been working for a while now, and
14 this is a daunting task. I've been on this Committee
15 as a Co-Chair, like Gerri said, with Kelly. Kelly, of
16 course, took the major share of the responsibility
17 here. I was just supporting him. But the most
18 important thing about this charge is, while most of
19 the charges would have, you know, need for data, there
20 will be data gaps, information not available, but this
21 charge especially has a lot of areas which are grey,
22 which are evolving. And over the time that we've been

1 dealing with this charge, we had a whole lot of
2 learning happening for the Committee.

3 Now, incidentally, the subcommittee that
4 actually learned a whole lot has moved on, in part.
5 We have new members coming in. We have a wealth of
6 information that we have gathered that's available for
7 us, as well as, we have the expert advisors who will
8 be advising this Committee as we move forward.

9 So what I'll do is I'll just take you
10 through very briefly on what we did over these -- over
11 a year and a half pretty much. The charge questions
12 are with you. All of the handouts are outside, so
13 we'll not go over the charge questions, but the goal
14 of all the work we did until now and as it is today,
15 is to orient you guys to generally what has been
16 attempted and what will we do.

17 We have -- you can look at the listing --
18 list here. We had lots of partners. We had the FDA
19 partners asking questions about Norovirus. We had
20 CDC. We have FSIS. We have the School Lunch Program.
21 So we had a lot of partners which put a list of
22 questions together. And we assembled a range of

1 specialists, whether from CDC or NC State University
2 (Lee-Ann Jaykus). So we learned most of what is
3 happening with Norovirus. We also had the School
4 Lunch Program people to come and tell us their needs,
5 as well as, FDA told us what their issues are through
6 Kevin Smith.

7 And the subcommittee, rather a small
8 subcommittee at that time, we had only 19 members, so
9 we got a smaller portion of that, was divided into
10 five groups. The fifth group was -- we'll talk about
11 that later, but the four groups, the work was divided,
12 questions were grouped into common themes, and the
13 work was divided so we could accomplish this work.
14 The first work group talked about the burden of
15 illness and attribution, those kinds of issues from
16 CDC's angle.

17 Then we have the second work group,
18 mitigation and control and intervention, actually.
19 This work group has the most work, this was a large
20 work group, and with the most challenges. Because for
21 many of these questions we do not have data that is
22 reliable. If it's available, can we translate the

1 data? Those questions still remain. So this work
2 group did a phenomenal amount of work, which is going
3 to be available to the new Committee.

4 And the work group number three was on
5 detection and surrogates. The main problem here is,
6 why does this just get carried in the food systems?
7 And then they get carried further as the distribution
8 happens. How it gets introduced at different points,
9 but they don't multiply and we don't culture them,
10 especially Norovirus. So this is a major area where
11 you need surrogates, surrogates which are true, as
12 close to Norovirus as possible. And that's been a
13 challenge over the years. A lot of work has been
14 done. So we learned a whole lot. The Committee
15 learned a whole lot about the limitations of using
16 surrogates and we have that information for the new
17 Committee.

18 Detection, there is a slew of work that is
19 happening in detection, including right from cell
20 cultures to molecular methods. So there's a whole lot
21 of work that was discussed, which is available for the
22 new subcommittee.

1 Risk assessments, now this is again a
2 complex question. And what we did was we kind of
3 assembled generic information on how risk assessments
4 can be done and, with respect to Norovirus, what is
5 that we need to conduct risk assessment? What are the
6 risk management questions? And in that context, of
7 course, we'll be collecting a whole lot of questions
8 from other subgroups as well as data leads and
9 questions from the other partners in terms of what
10 type of risk management issues do you have? We've
11 done part of that; we'll continue doing more of it as
12 we go along.

13 Group number five and this is the group I
14 was talking about. This is a specific question where
15 the NACMCF subcommittee will actually develop very
16 generic type of plans for certain systems, such as
17 restaurants and then long-term care facilities,
18 schools, airplanes, and of course, cruise ships. We
19 had a presentation by the cruise ship people, which
20 was very interesting. A lot of progress has been made
21 there, so we'll be able to learn something from there.
22 So these are -- after the four subcommittees meet and

1 then once we have kind of developed the document or
2 the concept, then we can go ahead and then develop
3 these plans as the whole group.

4 We had a lot of activity in terms of
5 learning. We invited a number of experts listed here,
6 and learned from them. In their circumstances, how do
7 they deal with Norovirus and what are their
8 challenges? We had subject matter experts that we've
9 invited, and we'll keep subject matter experts engaged
10 in this process from CDC as well as from USDA, ARS,
11 and other sources.

12 Now, the next few slides will give you a
13 quick summary of what I was talking about, summarizing
14 published estimates for burden of illness and
15 attribution. You can see that, you know, CDC is
16 working on this and we have made some progress, quite
17 some progress at this point. A lot of data gaps have
18 been identified and areas to advance science have been
19 identified as well.

20 The work group two, mitigation and control
21 interventions, this group did a ton of work and I
22 think there is a whole lot of work still to be done

1 with this group. The major areas were route of
2 transmission, hand sanitizers, then hard surface
3 sanitizers, inactivation technologies. And we
4 don't -- quite some interesting things about the
5 sanitizers, the claims the sanitizers make,
6 effectiveness issues, and the regulatory challenges
7 that FDA faces with this area.

8 Work group three, detection and surrogates,
9 like I talked about, current methods of choice and
10 detection and characterization. We learned quite a
11 bit, probably will learn more because we have the
12 NoroCORE grant, which is a NIFA grant, which is
13 ongoing. That's a \$25 million grant. And I think
14 it's already 1 year in progress now, so we'll learn
15 more about methods, et cetera. We'll learn about
16 surrogate issues. Also, what's been done in the past,
17 and pros and cons have been documented.

18 The work group four, risk assessment, like I
19 said, we have put a framework how risk assessments are
20 to be done. There are various sources all over, right
21 from WHO to FSIS' own sources, EPA, on how risk
22 assessments are done. And this charge basically will

1 give a snippet, just a summary, of how risk
2 assessments should be considered, considering
3 Norovirus issues. Also, this component will be
4 developed more as other groups make progress.

5 Now, this timeline for this charge provides
6 this with -- to be decided, TBD, because earlier than
7 we had timeline, we had fixed time for us to finish
8 this project. And by this September, we should have
9 actually finished the project if we had the Committee
10 functional for all the time. But now that the
11 Committee is not -- has not been functional for a long
12 time, as well as, Committee will not be meeting in
13 person -- earlier we had the freedom to meet in
14 person. Travel was easy. Travel is different now.
15 So the fact that the Committee, new Committee, brave
16 new Committee, will have to really do a whole lot of
17 work online with pieces, 2 hours, 3 hours, get
18 together -- that is -- that -- we haven't seen how
19 that goes because we've done this kind of work earlier
20 when you finish up a charge, but now the charge is not
21 even halfway through and we need to follow this
22 process.

1 So we have really kind of learned as we go,
2 so we have not put any timeline on this. Of course,
3 the aspirational goal is getting this done by
4 September. I'm not declaring it, but just putting it
5 out there. So I think today, tomorrow, and the day
6 after, you will, as a team, meet and make decisions
7 about where we are and where do we go from here, and
8 just a rough idea about when can we get this
9 completed? So I think that was my last slide, if you
10 have any questions?

11 MS. RANSOM: Okay. No questions for Uday?
12 Thank you, Uday, for giving us a comprehensive picture
13 of where the group was and where they're going to
14 continue on. Okay. And I want to thank Doctors
15 Margaret Hardin and Dave Gombas for agreeing to chair
16 this subcommittee. They are the brave new Chairs, and
17 Mike Landa thinks you should stand, Margaret and Dave.

18 (Laughter.)

19 MS. RANSOM: Go ahead and stand. They won't
20 stand.

21 (Laughter.)

22 MS. RANSOM: I'm not sure if that's a good

1 sign or not.

2 (Laughter.)

3 DR. GOMBAS: -- we're good.

4 MS. RANSOM: Okay. Now at this time, we're
5 going to hear from a continuing member of the DOD
6 subcommittee, and this is Ms. Angela Ruple. She's
7 from the National Marine Fisheries Service, Department
8 of Commerce, and she's the one -- one of the few
9 surviving members of this subcommittee.

10 MS. RUPLE: Thank you, Gerri, and thank you,
11 Uday, for getting my slides set up.

12 DR. DESSAI: I think it's ready. Okay.

13 MS. RUPLE: As Gerri indicated previously,
14 Spencer Garrett was the former Chair of this
15 subcommittee. I won't pretend to have the years of
16 knowledge and experience that Spencer has, but as a
17 previous member of this subcommittee, and one of the
18 few remaining members, I was asked to give a brief
19 overview of what the subcommittee has accomplished
20 thus far and where we might be going within the next
21 few days. It's not working.

22 UNIDENTIFIED SPEAKER: What's going on?

1 DR. DESSAI: It's not doing it.

2 MS. RUPLE: It's not doing page up.

3 UNIDENTIFIED SPEAKER: Just use this one.

4 MS. RUPLE: Okay.

5 UNIDENTIFIED SPEAKER: Yeah.

6 MS. RUPLE: Thank you.

7 UNIDENTIFIED SPEAKER: No problem.

8 MS. RUPLE: As a brief background, this
9 charge has been around for quite some time. It was
10 initially introduced to the full Committee at the
11 plenary session in March of 2009. Due to several
12 difficulties in getting the charter renewed and
13 actually establishing a committee, there wasn't a
14 whole lot of work done between that introduction and
15 the time that we actually got started doing the real
16 work in 2011.

17 So in April of 2011, the subcommittee met in
18 Washington, D.C., and during that meeting, we reviewed
19 a lot of background information. We had presentations
20 from experts and just sort of tried to get a feel for
21 what the charge was. Then we met again in September
22 of 2011, and at that meeting, we were able to

1 establish a little more of a framework of how we
2 wanted to approach the charge. Then, as we heard
3 earlier today, this subcommittee was asked to put work
4 on this charge on hold and to focus our efforts on the
5 charge that we heard about this morning from AMS.

6 And it's very rewarding to hear that the
7 recommendations that came from the subcommittee, we
8 did do a lot of work in a short amount of time, and
9 it's very rewarding to hear that that -- those
10 recommendations are being applied. So it just shows
11 us that the work of this Committee is very important
12 and we look forward to continuing that work.

13 By way of background, the DOD purchases food
14 globally for our military personnel, and they have
15 established their own standards for pathogens, such as
16 *Salmonella*, *Listeria monocytogenes*, *E. coli* 0157:H7,
17 *Clostridium perfringens*, and various microbial toxins.
18 But along the way, they've encountered numerous
19 circumstances where the numbers of potential pathogens
20 or indicator bacteria have generated some concerns
21 about the safety and/or the wholesomeness of the
22 products that they're responsible for. So over the

1 years, they -- they've established their own
2 standards. They have people, their own auditors and
3 processing establishments. They also rely on the
4 processing establishments, themselves, to set specific
5 criteria.

6 But the DOD felt that these standards needed
7 to be evaluated for their applicability to the current
8 processing. We all know that technology changes
9 frequently, and so they would like to see the NACMCF
10 Committee look at these standards that they've already
11 established and make some recommendations on how to
12 proceed with that in the future. Specifically, they
13 determined that these standards need to address all
14 stages of the process, from the production to the
15 distribution. And some of the standards that have
16 been established by other agencies and also by the
17 processing establishments themselves, focus on one
18 small aspect of that, where DOD would like to take a
19 look at the entire process.

20 And they've asked NACMCF to give some
21 guidance on the role of microbiological or other
22 indicators to evaluate raw materials or product

1 components in food service establishments, and they
2 felt like that would greatly enhance their role in
3 providing food safety for our military. So the
4 specific charge that was given to NACMCF came in the
5 form of several questions.

6 The first, which was to describe the
7 processes and important considerations that could be
8 used to develop a microbiological criteria for
9 particular food commodities and to look at various
10 points in the process where these criteria might be
11 applied, and also to determine how these different
12 criteria and considerations would differ in other
13 regions of the world. It was important for them to
14 point out to the Committee that some of the purchases
15 that they do are not just commodities purchased in the
16 United States, but they're doing purchasing globally.

17 The second question posed to the
18 subcommittee was to determine at what point in the
19 production and how many various microorganisms in
20 ready-to-eat products might indicate a possible
21 process control problem or, perhaps, a hazardous
22 product, and how might these levels and criteria

1 differ between different types of ready-to-eat
2 products?

3 The third question dealt with levels of
4 mesophilic aerobic plate counts in ready-to-eat
5 finished products and how might the criteria be
6 developed for specific ready-to-eat products, and how
7 this -- how they would differ between non-intact raw
8 products, and how would they be expected to change
9 during this -- the shelf life of the commodity.

10 The fourth question was to look at other
11 potential indicators. Are there other indicators that
12 might better indicate process concerns and possibly
13 potential hazards?

14 And then the fifth question, we can't talk
15 about setting criteria without discussing sampling
16 plans. So the fifth question to the Committee as part
17 of the charge was to look at various sampling plans
18 that are available and determine how these sampling
19 plans might be utilized by the Department of Defense.

20 So they also recommended a -- an approach to
21 us. This was a very broad charge and we're actually
22 very hopeful that we'll be able to narrow the focus of

1 this charge during this meeting so that we can better
2 address their needs. But they (the DOD) have
3 suggested that we review a number of criteria that
4 have already been set by other national and
5 international organizations. So we spent a good deal
6 of time in our first meeting reviewing some of this
7 information.

8 And so as we reviewed -- again, we did a
9 review of the recommended criteria, as well as some
10 others that some of the subcommittee members brought
11 to the table, and then we did -- decided as a group to
12 establish some specific food group categories that we
13 could use to kind of wrap the criteria around. We
14 then, once the subcommittee was in agreement on the
15 food categories we would use, we divided into working
16 groups to address the specific questions that had been
17 posed.

18 Just a quick overview of the basic food
19 categories that we identified were ready-to-eat
20 products that were processed for lethality, for
21 example, processed meats, poultry, eggs, hot smoked
22 seafood products, and cooked frozen fruits and

1 vegetables. The second category was ready-to-eat
2 combination products that may have had some raw
3 ingredients and some processed ingredients, and then
4 raw ready-to-eat products, such as bagged salads, raw
5 molluscan shellfish, whole raw fruits and vegetables,
6 sprouts, cold smoked seafoods, and raw fruits and
7 vegetables. And then the last category was non-ready-
8 to-eat products, such as beef, pork, poultry, and
9 seafood.

10 The first work group that was established
11 was to look at the processing considerations. And
12 basically, that group designed flow diagrams for
13 processing of each of the food commodities in the
14 categories that had been developed. That group
15 established a flow diagram that identified the steps
16 within each of the processes where controls might be
17 put into place and where criteria might be developed.

18 Now, the second work group was to address
19 Questions 2, 3, and 4, that basically talked about
20 indicators, both those that are currently used by DOD,
21 as well as those that may be new, that could
22 potentially be used. That group did quite a bit of

1 work, and I was not a member of that work group, so I
2 can't get into detail, but they've established a --
3 well, let's see -- they reviewed a lot of the
4 literature that was available and they've established
5 a table looking at applying the criteria developed by
6 these different groups to the commodities that had
7 been identified.

8 And the third work group was to look at
9 sampling plans. We had -- that was a very small work
10 group, but they did a great deal of work and they've
11 established a table that looks at different sampling
12 plans and how they could be used within the food
13 commodities identified.

14 We're very happy to have Dr. Jeffery
15 Kornacki and Dr. Skip Seward as our new subcommittee
16 leaders, and we look forward to working with them.
17 Those of us who were on the previous subcommittee will
18 be here to provide whatever assistance, but we look
19 forward to looking at some new possible direction, and
20 narrowing the scope of the charge. In talking with
21 these two gentlemen, it looks like one of the things
22 that they would like to accomplish this week is to go

1 back and review some of the food categories that were
2 identified and look at the processing flowcharts to
3 see where we need to go from here, as well as to
4 review some of the historical data that has been
5 provided to us by the Department of Defense, and to
6 identify and review updated literature. They've
7 pointed out that some -- obviously, this charge has
8 been around for a long time and maybe some of the data
9 that we have is outdated. So we want to spend some
10 time this week trying to update our resources.

11 And I'll close with a slide I borrowed from
12 the Department of Defense when they initially gave us
13 this charge. And I -- for those of you who can see
14 the slide, might be able to see that there is an
15 indicator of a lack of process control present in this
16 slide. And if you can't see it, there seems to be a
17 frog in this bag of lettuce.

18 (Laughter.)

19 MS. RUPLE: And with that, I'll entertain
20 any questions.

21 MS. RANSOM: Okay. No questions for Angela.
22 Thank you very much, Angela, for a comprehensive

1 report on your charge, and we look forward to the
2 restart of this work. And thank you, Drs. Skip Seward
3 and Jeff Kornacki for agreeing to chair this
4 subcommittee. Are you guys willing to stand up? Skip
5 is standing up.

6 (Laughter.)

7 MS. RANSOM: All right.

8 (Applause.)

9 MS. RANSOM: Okay. At this point, I want to
10 ask, are there any questions at the table or any from
11 Committee members or experts for any of the speakers
12 today? Okay.

13 DR. LABUDDE: For Mr. Schroeder --

14 MS. RANSOM: Robert, Robert you have a
15 question for?

16 DR. LABUDDE: Mr. Schroeder.

17 MS. RANSOM: Okay. Carl.

18 DR. LABUDDE: You mentioned that you have a
19 vast quantity of testing data, which includes
20 indicator organisms and pathogens, for meat products
21 at least, that go back several years. Is any of that
22 data available for review?

1 DR. SCHROEDER: That's a very good question.
2 The short answer is, not publicly as of this minute.
3 However, we're working on hopefully posting those data
4 to our website very soon. That's a decision we hope
5 is made shortly. I don't know if they will be or not.
6 There are some legitimate concerns from our vendors
7 about -- for some of our programs, we only have two
8 vendors, and so it's not that difficult to piece
9 together who Vendor A and Vendor B is. But with all
10 that said, I think its -- or we at AMS think it's in
11 the public interest to make those data available so
12 that we shed light on it and everybody can use them
13 for risk assessment or policy creation, or whatever.
14 And I also think they tell a very good story. When we
15 look at those data, the number of pathogens we see and
16 the process control indicator organisms all indicate
17 that the vendors that produce for AMS are producing a
18 very microbiologically safe product.

19 DR. LABUDDE: As a follow-up, has AMS
20 published any summary reports of this data that would
21 indicate, for example, the connection between
22 indicator organisms and pathogens on --

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1 DR. SCHROEDER: Not that I'm aware of,
2 however, again I go back to -- I'm very hopeful that
3 in a matter of days, if not weeks, those data will be
4 available. And I'm comfortable in saying that even if
5 we do not post them to our website; we would be very
6 pleased to make them available to the NACMCF Committee
7 to assist with your deliberations. Thank you.

8 DR. KORNACKI: Just a follow-up question,
9 you mentioned, you know, the data were applicable to,
10 I think, U.S. suppliers. Any thoughts as to how it
11 might be applied more globally?

12 DR. SCHROEDER: I'm not sure. One of the
13 requirements for the AMS purchase programs is that the
14 product must be produced domestically. And so we
15 have, as I mentioned, with all of our testing that we
16 do, we have a very intense snapshot of what's going on
17 in the industry, but all those data are limited to
18 U.S. And I'm not sure what conclusions, if any, we
19 could use to draw globally. But I do think it
20 underscores though, the point of hopefully, if we get
21 those data out and make them available to everybody,
22 then you can look at them and start trying to form

1 hypotheses and draw questions about what other use
2 they might have.

3 You're welcome.

4 MS. RANSOM: Okay. Thank you, Carl.

5 Okay, now, at this time, we are at the
6 public comment period of our meeting. As I
7 understand, no one signed up out front, but I want to
8 open questions to members of the audience for any of
9 the speakers today. Going once, going twice, okay,
10 three times you're out. All right, that's the end of
11 our public comment period. Anything else before we
12 move on? Okay.

13 Now I wanted to make an announcement. Today
14 we have heard that the *Listeria monocytogenes*
15 telebriefing is going to be happening at noon. I know
16 CDC is involved and the telebriefing is starring Dr.
17 Tom Frieden, Director of CDC, Elisabeth Hagen, our
18 Chair, and Mike Taylor, FDA, will be participating.
19 This is going to take place at noon. We are going to
20 get a room set up with a phone if anyone would like to
21 listen in. So it may be possible for you to grab
22 lunch and come back. We will keep you posted. Our

1 folks out front will know where this is going to take
2 place. I don't have a location yet. Okay. All
3 right, at this point we are now at the close of this
4 plenary meeting. And before I close the meeting, I'd
5 like to turn the floor over to our Vice-Chair, Mr.
6 Mike Landa, from FDA.

7 MR. LANDA: Genuine thanks today to everyone
8 who participated and my appreciation and Elisabeth's
9 as well to all the members of the Committee and the
10 experts who will be sharing some of their time as well
11 as all of their expertise to assist the -- not the --
12 the work -- this important work and we should perhaps
13 be more linear in sharing it.

14 MS. RANSOM: Okay. All right, I thank
15 everyone today for participating and I now call this
16 meeting adjourned at about 11:23 a.m. Thank you.

17 (Applause.)

18 (Whereupon, at 11:23 a.m., the meeting was
19 concluded.)

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C E R T I F I C A T E

This is to certify that the attached proceedings
in the matter of:

NATIONAL ADVISORY COMMITTEE ON
MICROBIOLOGICAL CRITERIA FOR FOODS

PLENARY SESSION

Washington, D.C.

June 4, 2013

were held as herein appears, and that this is the
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MICHAEL GILMAN, Reporter

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