

UNITED STATES DEPARTMENT OF AGRICULTURE

In the Matter of:)
)
INTERNATIONAL PLANT PROTECTION)
CONVENTION (IPPC) STANDARD ON)
PLANT PEST RISKS ASSOCIATED) Docket No.: 01-061-1
WITH LIVING MODIFIED)
ORGANISMS (LMOs))

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THE UNITED STATES DEPARTMENT OF AGRICULTURE
APHIS PUBLIC MEETING

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CONVENTION (IPPC) STANDARD ON)
PLANT PEST RISKS ASSOCIATED) Docket No.: 01-061-1
WITH LIVING MODIFIED)
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Thursday,
August 23, 2001

Conference Room 1D11
USDA Center at Riverside

4700 River Road

Riverdale, Maryland 20737

The meeting in the above-entitled matter was
convened, pursuant to Notice, at 10:07 a.m.

BEFORE: ANISSA CRAGHEAD
Moderator

PARTICIPANTS:

PANELISTS:

CATHLEEN ENRIGHT
Director, Biotechnology Issues
PIM, PPQ, APHIS

NARCY KLAG, PIM, PPQ, APHIS

JOHN GREIFER

QUENTIN KUBICEK

PARTICIPANTS (continued):

PRE-REGISTERED SPEAKERS:

PETER JENKINS
Center for Food Safety

MICHAEL HANSEN
Consumers Union

LEAH PORTER
American Crop Protection Association

PRE-REGISTERED SPEAKERS (continued):

FAITH CAMPBELL
American Lands Alliance

PRE-REGISTERED PARTICIPANTS (via telephone):

RICHARD CAPLAN
U.S. Public Interest Research Group

BETH BURROWS
The Edmonds Institute

DAVID GUYER
Syngenta Seeds

MARK CONDON
ASTA

KENT SWISHER
ASTA

PRE-REGISTERED PARTICIPANTS (in person):

MARK LEARN
Hogan & Hartson

RICHARD O'BLEINSTEIN
Defenders of Wildlife

JESSICA FERRUZZI

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P R O C E E D I N G S

(10:07 a.m.)

MS. CRAGHEAD: This is a public meeting to discuss the recommendation for the development of a standard concerning the plant-pest risks associated with living modified organisms, LMOs, under the International Plant Protection Convention. The IPPC is recognized as the international, standard-setting body for international plant-pest issues by the World Trade Organization.

My name is an Anissa Craghead, and I've been asked by the deputy administrator for PPQ to be the moderator for today's meeting. The panelists for today's meeting are Dr. Cathy Enright, to my right, director of biotechnology issues and phytosanitary issues management, plant protection, and quarantine. Cathy is the person responsible for coordinating the federal government process for addressing LMOs under IPPC.

And to Cathy's right is Mr. Nancy Klag, program director for international standards development and issues under the North American Plant Protection Organization. Nancy coordinates the development of U.S. Government positions for a range of IPPC issues and is here to answer questions related to IPPC in general.

The purpose of today's meeting is to provide you with background on the issue of LMOs as they pertain to IPPC

1 and to give interested persons an opportunity to present
2 their views on the recommendation for the development of an
3 IPPC standard concerning the plant-pest risks associated
4 with LMOs. Notice of today's meeting was published in the
5 Federal Register on July 27, 2001.

6 The format for today's meeting will be as follows.
7 After I complete my remarks on the procedural aspects of the
8 meeting, Dr. Enright will provide you with background
9 information on the issue of LMOs under IPPC and update you
10 on what's happened on this topic since our last public
11 meeting, which was on March 8th of this year.

12 After Dr. Enright's presentation, persons who have
13 registered to speak will be given an opportunity to speak in
14 the order that they registered. After each speaker
15 completes his or her remarks, panelists will have the
16 opportunity to provide clarification or additional
17 background information if needed and appropriate to the
18 topic of this meeting. If time permits, persons who have
19 not registered will be given an opportunity to speak once
20 all registered persons have spoken.

21 Today's meeting is scheduled to end at noon.
22 Should registered speakers' presentations take us over the
23 noon conclusion time, we will remain longer to accommodate
24 their statements. Alternatively, we may conclude before
25 noon if all persons who have registered to speak have been

1 heard, and there are no other persons who wish to speak.

2 Four people are registered to speak at today's
3 meeting. I know we have some people by phone. Does anyone
4 who is on the line right now by phone want to speak, give a
5 prepared statement? Can you hear me by phone?

6 A PARTICIPANT: Yes. Can we reserve the right to
7 ask questions? We're not there. We can't see if it's
8 possible to ask questions. In the last meeting like this
9 there was some facility to ask questions, and I found it
10 quite useful.

11 MS. CRAGHEAD: I think that would work out fine.
12 Sure, you can ask questions.

13 All comments made here today are being recorded
14 and will be transcribed. The court reporter for today's
15 hearing is Wallace Farmer, who is associated with Heritage
16 Reporting Corporation in Washington, D.C. Detailed
17 information on obtaining a copy of the transcript for
18 today's meeting is available at the registration table,
19 which is right over there.

20 I will call each person who has registered to
21 speak. Before beginning, please come and sit in that chair,
22 pick up that microphone, state and spell your first and last
23 name for the court reporter, and tell us who you are
24 affiliated with. If you're on the phone, please tell us who
25 you are, state and spell your last name, and then every time

1 subsequently that you speak please let us know who you are
2 so that the court reporter can record who you are.

3 If you read a prepared statement and have an extra
4 copy with you, please give me that extra copy at either the
5 beginning or end of your remarks. Any oral statement
6 presented or written statement submitted at today's meeting
7 will become part of the public record. If a speaker's
8 comments do not relate to the stated purpose of today's
9 meeting, which is to present comments or questions on the
10 recommendation for an IPPC standard concerning the plant-
11 pest risks associated with LMOs, I will ask the speaker to
12 focus his or her comments accordingly. In addition, I
13 expect everyone to show respect to speakers and give
14 speakers your full attention.

15 Please sign the attendance sheet, which is also
16 located on the registration table, before you leave today.
17 After Dr. Enright's presentation I will call the first
18 registered speaker. Cathy, it's all yours.

19 MS. ENRIGHT: Thanks, Anissa, and thank everyone
20 for coming today. At the March 8th meeting I recalled for
21 everyone what had happened in the runup to the April meeting
22 of the Interim Commission on Phytosanitary Measures. That's
23 the ICPM, the governing body of the IPPC. So today I'm
24 going to begin where I left off March 8th. If we need to
25 come back to events that occurred before the March 8th

1 meeting or before the April meeting of the ICPM, I would be
2 happy to clarify or recall the background for you.

3 In April, as I said, the IPPC's Interim Commission
4 on Phytosanitary Measures -- that's the ICPM, the governing
5 body of the IPPC -- recommended that an international
6 standard be completed by April 2004 to address the plant-
7 pest risks associated with living modified organisms, or
8 LMOs.

9 As the first step toward development of an LMO
10 standard, the ICPM requested that an open-ended, expert
11 working group be convened to produce a detailed
12 specification or an outline for an LMO standard. The expert
13 working group is scheduled to meet September 10th through
14 the 14th at FAO headquarters in Rome under the terms of
15 reference that were printed in the Federal Register notice
16 for today's public meeting. I'm not going to repeat those.
17 The specification developed in September will then be
18 considered at the next meeting of the ICPM in March of 2002.

19 As discussed at our March 8th public meeting, the
20 decision to consider an IPPC standard for LMOs was the
21 result of requests from a number of IPPC member countries in
22 1999 for guidance in evaluating the plant-pest risks
23 associated with LMOs and also from the subsequent
24 recommendations made in June of 2000 by a meeting of an IPPC
25 working group formally charged with considering the need for

1 an LMO standard.

2 Our goal in the IPPC exercise is to develop
3 substantive guidelines for the assessment of plant-pest
4 risks associated with LMOs; in other words, to set out
5 information requirements, assessment criteria, and
6 risk-mitigation measures that countries may want to consider
7 as they make decisions regarding the importation and use of
8 transgenic organisms.

9 Your comments today will help us prepare for the
10 September meeting at the IPPC and will also help to inform
11 our approach to the overall LMO standard development
12 process. Before we hear from the first speaker, I would
13 like to draw your attention to an effort that will parallel
14 and perhaps serve as a model for the IPPC LMO standard. As
15 noted at the March 8th public meeting, the United States has
16 begun to address the plant-pest risks associated with
17 genetically engineered organisms at the regional level with
18 Canada and Mexico under the North American Plant Protection
19 Organization, or NAPPO.

20 In this draft NAPPO standard we have focused first
21 on transgenic plants and have divided the draft standard
22 into four modules based on the intended use of the
23 transgenic plant. The first two models of the draft NAPPO
24 standard should be available on the NAPPO Web site,
25 www.nappto.org, by the end of next week, after which those

1 modules will be available on our APHIS Web site, which is
2 there for you at the back of the room, for a 60-day,
3 country-comment period. And we would appreciate your
4 reviewing those modules, and we look forward to receiving
5 your comments on them. Thank you.

6 MR. HANSEN: Hi. My name is Michael Hansen -- I
7 have two questions -- from Consumers Union of the U.S. I
8 have two very brief questions. One is, is the Web site,
9 www.nafo.org?

10 MS. ENRIGHT: Nappo.org

11 MR. HANSEN: Nappo. And the other question was,
12 since I was not at the March meeting -- it was probably
13 covered there -- could you tell me who the countries were in
14 1999 that requested the development of the standard?

15 MS. ENRIGHT: John, would you?

16 (Off microphone.)

17 MS. ENRIGHT: India.

18 MR. HANSEN: India. Five countries. Most of them
19 from the south, developing countries?

20 MR. GREIFER: And then that led on to others.

21 MS. ENRIGHT: So what John Greifer has just said
22 is that the initial impetus for guidance stemmed from a
23 request by India and several other developing countries, and
24 then that led to increased support for guidance from a
25 number of developing countries. And I believe, John, at the

1 March 8th meeting you had recalled that Latin America had
2 joined that request for guidance as a whole at that time.
3 Is that correct?

4 MR. GREIFER: It may be worth noting that the
5 interest stemmed from developing countries who did not have
6 the capacity at that time in terms of assessing risk, pest
7 risk, for what appeared to be an increasing volume and
8 amount of traffic and trade in products that they needed to
9 have that ability.

10 MS. CRAGHEAD: Okay. Our first registered speaker
11 is Peter Jenkins.

12 MR. JENKINS: Thank you. Thanks for having this
13 meeting. I'm Peter Jenkins. I'm an attorney and policy
14 analyst with the Center for Food Safety and International
15 Center for Technology Assessment in Washington, D.C. We
16 appreciate your taking public input on these issues, and I
17 think this is a really useful forum to share ideas about the
18 ways in which LMOs present traditional sorts of plant-pest
19 risks and the ways in which perhaps they don't and the ways
20 in which those risks might not be appropriately considered
21 within an IPPC context.

22 Let me give you a copy of a written comment we
23 submitted that's got a lot of detail, and I won't go through
24 all of this. I'm just going to summarize a few points from
25 it. I sent you that by e-mail. Attached to that comment

1 with respect to this particular forum is also the comment
2 that we submitted about a month ago to a similar forum,
3 which was set up for considering APHIS's position with
4 respect to IPPC as far as this new environmental-impact
5 standard that is similarly being developed. So I think the
6 two issues are related, that is, ways in which IPPC's
7 competence should be expanded, should be extended and
8 recognized in broader areas and ways perhaps in which it
9 shouldn't.

10 So the gist of our written comment, though, is
11 that, and let me preface this by saying that I was a little
12 bit upset that I didn't hear you mention the other
13 international body that needs to be considered with respect
14 to this issue, which is the CBD, sort of up-and-coming,
15 Cart-in-hand Protocol on Biosafety, which, of course, has
16 primary competence to issue LMO standards.

17 This is going to be your challenge, it seems to
18 me, is to define those areas which the IPPC should be
19 addressing and those areas which really belong to the
20 Biosafety Protocol to address. We've tried to go through in
21 detail in our comment areas in which your exercise, as you
22 called it, might be a useful thing.

23 And don't get me wrong. I'm not criticizing this
24 process as a whole. In fact, I think it's great. I think
25 that what we need to see is greater cooperation between

1 these international agencies that may have some overlapping
2 jurisdiction in some areas. It's not uncommon in the
3 federal government to see overlapping issues of competence
4 and jurisdiction. Of course, you have to iron those out.

5 But I think in particular where there is a
6 positive synergy that's developed in this dialogue is with
7 respect to capacity building to ensuring that countries like
8 India and other developing countries do have the capacity to
9 address both traditional sorts of non-LMO plant-pest risks
10 and LMO sort of uniquely LMO risks. And as you know, it may
11 be the official same line people looking at both risks.

12 And to the extent that the IPPC and Biosafety
13 Protocol can cooperate and assist developing countries in
14 the capacity to look at both sorts of issues, that's great.
15 To the extent that there is dialogue between the two bodies
16 and the parties and the secretariats to both groups, that's
17 great. To the extent that you all officially recognize each
18 other's competence, we support that.

19 But where we run into problems is the idea that
20 the IPPC's body that you are talking about, this
21 deliberative body that's getting together in September, is
22 going to be laying out in great detail what the LMO risks
23 might be. If you consider risks beyond sort of traditional
24 plant-pest risks and invasive-species-type risks that the
25 IPPC is used to dealing with, and I tried to lay out some of

1 the distinctively LMO-type risks that really belong to the
2 Biosafety Protocol in the comment. And I hope you recognize
3 those, and I'm sure this is going to be an interesting
4 discussion because I don't think the IPPC either has the
5 capacity or the interest to really jump in and start getting
6 into all of the technical detail on LMO risks. Maybe they
7 do. I don't know. They have got enough problems already
8 without jumping entirely into the whole LMO-risk field.

9 I just listed a few that I think are clearly
10 beyond IPPC competence, and those include the concept of
11 unstable, inserted genes in LMOs that might jump from
12 species to species, which is not a negligible risk in some
13 cases. It seems to me far beyond IPPC sorts of issues,
14 although it might conceivably be considered by some
15 definition to be plant-pest risks. Similarly, this concept
16 of genetic contamination of organic and non-GMO crops might
17 be considered a plant-pest risk, but really it's the sort of
18 risk that is clearly within the Biosafety Protocol
19 competence to develop.

20 Gene flow from LMOs to wild relatives, protection
21 of centers of crop origin from LMO contamination, issues
22 deal with how to address resistance management for protected
23 plants such as BT corn, resistance management. You could
24 call that a plant-pest risk, but really it's the sort of
25 broader biosafety issues that the Biosafety Protocol was set

1 up to address, not the IPPC.

2 And then, of course, there's issues related to
3 allergenicity or toxicity of LMOs, such as the Starling
4 disaster, which you clearly don't want to get involved in,
5 and so on. So we put those in the comment with some support
6 for the fact that these issues are not trivial, and they
7 need to be recognized as serious risks that belong to the
8 Biosafety Protocol.

9 Let me try to finish up here. I'm rambling a bit.
10 These issues come up at the federal level, too. It's not
11 just an international situation. They couple up at the
12 federal level, too. How do we divide competencies between
13 the agencies?

14 Let's take the example of one critter, a
15 genetically engineered mosquito, which is happening. There
16 is research on genetically engineered mosquitoes, and they
17 might present two sorts of risks. They could present an
18 animal-disease risk and a human-disease risk, and at the
19 federal level we divide the analysis of those risks amongst
20 the appropriate agencies, where USDA APHIS looks at the
21 animal-disease risk, particularly VS and your biotechnology
22 groups. Bob Rose is here. He looks at those sorts of
23 risks. And as far as the human-disease risk, APHIS stays
24 out of it, and that belongs to the Public Health Service,
25 DHHS. The same sort of division of issues has to occur on

1 this topic.

2 So, again, the agencies should recognize each
3 other's competence, encourage cooperation and so on, but
4 don't step on each other's toes. That's the gist of the
5 comment, and I'm glad to answer any questions or anything.
6 Thank you.

7 MS. CRAGHEAD: Thank you. The next registered
8 speaker is Michael Hansen.

9 MR. HANSEN: Hi. My name is Michael Hansen, and
10 I'll spell it. It's H-A-N-S-E-N, just in case. And I'm
11 representing Consumers Union and the Consumer Policy
12 Institute of the U.S. And I guess we just have a few
13 comments we would like to make. They are sort of along the
14 lines of what Mr. Jenkins said.

15 We do think it is a positive first step that this
16 meeting is being held and that there is some consideration
17 between the IPPC and the Convention on Biological Diversity.
18 And in terms of them working together, I noticed that there
19 was a meeting in Thailand in February where the secretariats
20 for both sort of got together and talked about developing a
21 detailed standard specification.

22 We have some of the same concerns that the Center
23 for Food Safety does, and I think one of the first things
24 the U.S. should recognize is, yes, there probably are parts
25 of the plant-pest risk that are appropriate for the

1 international, for IPPC to cover because it does have
2 international standing. But I think there does need to be
3 an explicit recognition that the environmental issues raised
4 by genetically engineered plants or LMOs are wider than just
5 plant-pest risks.

6 So while it might be appropriate for the IPPC to
7 develop this standard, they should realize that there are
8 environmental implications that are outside of the plant-
9 pest risks. So that means they wouldn't be taking the whole
10 ball where they would be saying these specifications will
11 deal with all risks of LMOs. It would just be for the
12 narrow, plant-pest-associated risks, the risk that they
13 might become a weed or be invasive, those characteristics.

14 But some of the other considerations that people
15 have, some of the instability of transgenic organisms, the
16 horizontal gene transfer -- some of those may overlap if the
17 traits being moved do have an impact on or bear on plant-
18 pest risks, but others of them really don't.

19 And so I think that the U.S. and these agencies
20 should realize that the universe of environmental effects is
21 larger than just the plant-pest risks and that both the CBD
22 and IPPC should carve out and say, okay, these are the parts
23 that are appropriate for IPPC, and these are the parts that
24 are appropriate for CBD. And I think that needs to be done
25 in consultation with the secretariats from both getting

1 together.

2 However, I do notice one thing that might be
3 useful in terms of the issue of genetic contamination, is I
4 noticed in the pest-risk analysis that has to be done for
5 plant pests under the IPPC there is all of this
6 consideration of economic impacts. Now, some people have
7 brought up the concern with transgenic organisms that if
8 they have an impact on centers of diversity, some of those
9 impacts you can't necessarily put into an economic number.
10 What kind of value do you put on contamination, for example,
11 of teosinte in Mexico with transgenic genes? There is a
12 question of what its ecological impact could be, but there
13 is also -- it's really hard to put any kind of monetary
14 figure on that.

15 So that's why some people were concerned that if
16 you just focus on economic considerations, you will lose
17 things, but on the pro side, with the economic
18 considerations, since that's one thing that's very well
19 worked out under the IPPC, that might be a way to move
20 forward for the marketing aspects because one thing that's
21 unique about engineered plants is since there is now a
22 global trade, and there are countries that want GE-free
23 products or products with no detectable GE contamination,
24 then that means for countries that are not growing
25 transgenic organisms, if they decide to import some, then

1 the gene flow that will happen when these crops are planted
2 in those countries to neighboring crops that are not
3 engineered could have a negative economic impact and prevent
4 either their movement in international trade or prevent them
5 from being labeled as non-GMO. So that's an economic impact
6 that I think might be something appropriate for the IPPC to
7 look at under the pest-risk-analysis standard.

8 Now, I realize that that's a little bit of the
9 stretching of the concept -- well, probably not really
10 because normally what they are thinking is that you bring in
11 some plant that's not native, and it escapes and, I guess,
12 causes competition with some crop, thereby causing an
13 economic damage. Well, I think we need to start considering
14 with engineered crops that general flow does a very similar
15 thing, just from a strictly economic sense because rather
16 than in a biological sense this plant pest coming in and
17 displacing crops so you can't physically sell them and
18 having an economic impact that way, the way engineered crops
19 have an economic impact is simply through pollen flow and
20 through the movement of these transgenes into nontransgenic
21 crops.

22 So that might be one thing that I think should be
23 looked at in more detail, since there is this whole strong
24 economic-analysis part of the plant-pest risk, that's one
25 thing that I think should be dealt with at the open-ended,

1 expert working group, is to lay out the economic
2 considerations more fully in doing a pest-risk analysis for
3 the entry of a transgenic organism. And you are going to
4 have to start changing or modifying other things because I
5 noticed here that when you look at plant-pest risks, they
6 talk about how you have to look at the risk of movement, and
7 that's basically just based on the biological
8 characteristics of the organism.

9 But with transgenic organisms, that's not really
10 true because you will have humans who will be wanting to
11 plant those when they get approved for use in a country, so
12 the mechanism of spread won't be based just on the
13 biological characteristics of the plant, but they are based
14 on humans sort of trading them and moving them. So I think
15 it will entail sort of an expansion of your traditional
16 pest-risk analysis, but I think it can be done.

17 And so, in sum, I would like to say we do support
18 moving forward with this open-ended, expert working group
19 meeting and with the development of a standard, but the most
20 important things are I think there has to be a recognition,
21 number one, that not all environmental impacts of transgenic
22 plants, or LMOs, are plant-pest impacts.

23 Plant-pest impacts are a subset environmental
24 impacts of all of the environmental impacts of LMOs. And I
25 think this meeting should work out in conjunction with CBD

1 what the appropriate universe is of the plant-pest risk for
2 the LMOs, develop a standard based on that, and then
3 explicitly say that the other areas should be dealt with by
4 CBD, and further, we would like to see a strengthening or a
5 further development in the pest risk assessment that needs
6 to be done, a fuller development of using the economic
7 considerations for the unique sort of economic impacts that
8 LMOs can have via gene flow. Thank you very much.

9 MS. CRAGHEAD: Thank you for your comments. Our
10 next registered speaker is Leah Porter.

11 MS. PORTER: Good morning. My name is Leah
12 Porter, and I represent the American Crop Protection
13 Association. We welcome the opportunity to be part of this
14 meeting. We have written comments, which I'll just read
15 excerpts from.

16 We welcome the opportunity to comment on the
17 development of an international standard concerning the
18 plant-pest risks associated with living modified organisms,
19 or LMOs. We encourage APHIS's participation as part of the
20 expert working group under the auspices of the International
21 Plant Protection Convention, IPPC, given IPPC's recognition
22 by the World Trade Organization.

23 As the IPPC's Interim Commission on Phytosanitary
24 Measures commences its work, we would like to emphasize the
25 following. Evaluation of all LMOs should follow a

1 science-based, transparent, and timely risk-assessment
2 paradigm.

3 An LMO should not be assumed to be a plant pest
4 unless the risk assessment, one that utilizes IPPC standards
5 or an endorsed equivalent, concludes that phytosanitary
6 consideration is merited. A discussion of LMO or products
7 of modern biotechnology within the ICPM standard-setting
8 efforts must be within the context of seeds for planting
9 purposes. A discussion of LMOs or products of modern
10 biotechnology within the ICPM standard-setting efforts must
11 avoid the incorrect notion that seeds that are derived using
12 modern biotechnology are by definition plant pests.

13 A discussion of LMOs, products of modern
14 biotechnology within the ICPM standard-setting efforts, must
15 appropriately assess benefits and potential environmental
16 impacts within a science-based framework.

17 Transboundary or international movement of seeds
18 derived using modern biotechnology should use the existing
19 invoicing system, with the necessary changes rather than
20 requiring a phytosanitary certificate for each shipment.
21 Once an importing country has conducted a required risk
22 assessment on a transgenic event and granted approval,
23 transboundary shipments should not require approval of the
24 importing country prior to each shipment.

25 Thank you for giving the American Crop Protection

1 Association the opportunity to comment.

2 MS. CRAGHEAD: Thanks very much for your comments.
3 Our final registered speaker is Faith Campbell.

4 MS. CAMPBELL: Thank you. My name is Faith
5 Campbell. I'm with American Land Alliance, an environmental
6 organization that represents grassroots groups across the
7 country. We also appreciate the opportunity to be here. We
8 were unable to participate at the March meeting.

9 American Land urges APHIS to ensure that the IPPC
10 proceeds with great caution in exploring development of an
11 international standard for LMOs, and I was not happy to hear
12 of the 2004 goal. I think that's far too earlier.

13 First, you must carefully coordinate with the CBD,
14 as everyone else has said this morning, or virtually
15 everyone else, and that is going to take some negotiation
16 and working not just between the two secretariats, but among
17 the parties and among the various agencies within each
18 government that is party to one or both of these measures.
19 It's not going to be that easy to develop true cooperation
20 on this issue.

21 Second, I think the IPPC lacks expertise in many
22 of the crucial components of a truly science-based
23 evaluation of LMOs. The IPPC's current risk-assessment
24 process is already under criticism, certainly by me and
25 scientists with whom I work, and explicitly in the

1 invasive-species area by the IUCN guidelines on invasive
2 species and those under consideration by the CBD parties.
3 And if these risk-assessment criteria are inadequate for
4 invasive species, as I and others believe, they surely will
5 be inadequate for LMOs. So I think there is a need for much
6 caution and considerably broader consultation and rethinking
7 of the whole process.

8 I recommend that the IPPC base any LMO standard on
9 the conclusions drawn by the Royal Society of Canada in the
10 report it issued in January. There is a reference in my
11 written statement to that report. The Royal Society
12 recommended that commercial use of any LMO be deferred until
13 after testing of the specific GE line in six areas: the
14 genome, the transcript, the protein, the metabolite, the
15 health impacts, and the environmental impacts.

16 Regulators must rely on data from empirical
17 studies rather than assumptions based on hypotheses, and
18 countries should be encouraged by the IPPC and others to
19 subject their analyses to peer review and to take care to
20 avoid conflict of interest within the regulatory agency.
21 These studies must evaluate each genetic line, again, in the
22 context of the ecosystems, whether managed, such as
23 agricultural, or natural, into which the introduction is
24 proposed or into which it might slip as a result of being
25 intentionally introduced into one or the other. A crop

1 introduced into a managed ecosystem can have impacts on
2 nearby natural systems, and no analysis is adequate without
3 looking at those.

4 Now, some may consider these studies duplicative,
5 but I don't think they are, and we also need to look at the
6 risks from pleiotropic effects, and that is one area where I
7 see very little attention domestically, and I would assume
8 that would follow in the international arena as well.

9 Such detailed studies are called for, according to
10 the Royal Society of Canada, whenever there are some
11 scientific data, although incompletely, contested, or
12 preliminary, or plausible scientific hypotheses or models,
13 even though contested, that establish a reasonable, prima
14 facie case for the possibility of serious harm, and there is
15 significant uncertainty.

16 An underlying principle here is that we need to do
17 a better job of managing the risks associated with this new
18 technology than we did the risks, for example, with chemical
19 pesticides. We don't want to be in the same situation 50
20 years from now of trying to clean up after ourselves because
21 we weren't adequately careful beforehand.

22 Now, I believe these principles point to an IPPC
23 standard that encourages each country to consider the
24 potential risks and benefits from its own ecological and
25 social perspective before deciding whether to allow

1 importation. It allows countries to require would-be
2 importers of LMOs to conduct or pay for the relevant
3 empirical studies on which this assessment must be based but
4 recognizes countries' differing abilities to adopt and
5 enforce regulations.

6 I would like to emphasize this. Regulations
7 written on the assumption that everyone is going to behave
8 correctly are unrealistic. Regulations that assume that
9 regulatory bodies will find out quickly that something has
10 gone wrong are unrealistic. Regulations that assume that
11 mistakes can be cleaned up afterwards are borderline
12 unrealistic or perhaps not even borderline. All of these
13 factors need to be considered, and any IPPC standard needs
14 to put that warning in place, I believe.

15 And, finally, I join Mr. Jenkins in calling for a
16 real emphasis on technical and financial assistance in
17 helping countries develop their capacities. I don't think
18 any country, including this country, has an adequate
19 capacity, but 150 other countries have severely worse
20 capacities than ours, and nothing is going to work right if
21 that isn't improved.

22 Potential negative impacts from GE organisms or
23 LMOs include, but are not limited to, escape of the gene
24 from the crop into other related species, the impacts of
25 inserted pesticides on food webs and ecosystem processes,

1 the repercussions of pests developing resistance, enhanced
2 invasiveness of the LMO or its relatives in both natural and
3 managed systems, and certainly study of this issue in
4 natural systems lags far behind the study in managed
5 systems, the impacts of other genetically induced changes,
6 and the environmental impacts from management technologies,
7 such as sterility and increased use of herbicides to control
8 LMOs and prevent their escape.

9 Again, all of these potential risks need to be
10 evaluated for each line in the context of each environment
11 in part because of the risks from pleiotropic effect, and
12 these evaluations must occur before the LMO is approved for
13 use, not as some adaptive management process afterwards.

14 I concur with a remark made a little earlier about
15 the great risks of introducing LMOs into centers of origin
16 or diversity for the particular kind of crop that is being
17 dealt with, and I think the IPPC needs to highlight that and
18 work very hard on that problem.

19 In short, I think that this whole process is going
20 to take a lot longer than two or three years. It should
21 take longer than two or three years, both because of the
22 requirement for dialogue and the many unanswered questions
23 that need to be addressed. Thank you.

24 MS. CRAGHEAD: Thank you. That's the end of our
25 list of registered speakers. Does anyone have a prepared

1 statement that they would like to give?

2 MR. SWISHER: Yes. The American Seed Trade.

3 MS. CRAGHEAD: We'll go with the phone.

4 MR. SWISHER: Okay.

5 MS. CRAGHEAD: Can you state and spell your first
6 and last name and give your affiliation before you start
7 your comment, please?

8 MR. SWISHER: Sure. This is Kent Swisher, K-E-N-T
9 S-W-I-S-H-E-R, with the American Seed Trade Association, and
10 we have also provided written comment as well. Can you hear
11 me okay?

12 MS. CRAGHEAD: Yeah.

13 MR. SWISHER: Okay. I'll proceed. The American
14 Seed Trade Association, or ASTA, appreciates the opportunity
15 to provide comments today on the development of
16 international standards concerning the plant-pest risk
17 associated with LMOs. In general, ASTA cautiously endorses
18 such standards, development processes under the auspices of
19 the IPPC. Where one or more international agreements exist
20 covering various areas, we believe that existing
21 international organizations and mechanisms should be used
22 wherever possible instead of the establishment of new
23 organizations or procedures or both.

24 The objectives and mechanisms of the IPPC and of
25 other international treaties can coexist and complement each

1 other. At the same time, we also want to emphasize that
2 duplication should be avoided whenever possible.

3 By way of background, founded in 1883, ASTA is one
4 of the oldest trade organizations in the United States. Its
5 membership consists of around 900 companies involved in seed
6 production and distribution, plant breeding, and related
7 industries in North America. Its mission is to enhance the
8 development and preovement of quality seed worldwide.

9 Many of ASTA's members, large and small, are
10 engaged in research-and-development activities designed to
11 enhance the quality, variety, productivity, and availability
12 of agricultural seeds. Some of this research involves the
13 use of molecular and other techniques for genetic
14 modification. Although the industry still relies heavily on
15 traditional breeding methods, such as hybridization, to
16 produce new plant varieties and to otherwise accomplish
17 desirable genetic changes, the Association remains committed
18 to the development and commercialization of all genetically
19 altered plants that comply with applicable federal and
20 international laws and regulations.

21 ASTA and its members have a long-valid
22 relationship with organizations involved in implementing the
23 IPPC, a multilateral treaty developed in 1952. ASTA has
24 cooperatively worked for many years with bodies such as
25 regional plant-protection organizations in the development

1 of standards and other criteria to prevent the spread and
2 introduction of plant pests on plants and plant products and
3 promote measures for their control.

4 IPPC, therefore, can be the appropriate forum for
5 the development and application of harmonized, phytosanitary
6 measures and the elaboration of international standards.
7 The IPPC's scope is to, and I quote from Article 1.1,
8 "common and effective action to prevent the spread and
9 introduction of pests of plants and plant products and to
10 promote measures for their control."

11 This broad nature of IPPC's mandate governing
12 plants is not limited to cultivated plants, and protection
13 is not limited to direct damage from pests. The coverage of
14 the IPPC includes weeds and other articles that have
15 indirect effects on plants. The scope of the convention,
16 therefore, already applies to the protection of wild flora
17 that make an important contribution to the conservation of
18 biological diversity.

19 A particularly important aspect of the IPPC is
20 that it involves a collaboration with other organizations to
21 avoid duplication and encourage harmonization for the
22 implementation of obligations of other instruments.

23 Given this overall mandate, it is not surprising
24 to us, and, indeed, it may be appropriate, that IPPC address
25 plant-health issues that might be presented by LMOs or other

1 products of modern biotechnology that fall within the scope
2 of the IPPC. Indeed, existing national mechanisms and other
3 structures for phytosanitary measures can perhaps help serve
4 as a model for developing approaches for managing risks
5 associated with LMOs and other products of modern
6 biotechnology. It is our view that the plant-pest risks
7 associated with LMOs can fall clearly within the scope of
8 the IPPC, as do invasive species and quarantined pests. On
9 the other hand, not all seeds that may be considered LMOs
10 are necessarily plant pests or pose plant-pest issues.

11 One of the main reasons why we cautiously endorse
12 the use of IPPC mechanisms is that IPPC plays a key role in
13 trade. It is recognized by the World Trade Organization in
14 the Agreement on Application of Sanitary and Phytosanitary
15 Measures as a source of international standards for
16 phytosanitary measures affecting trade. Since phytosanitary
17 measures, by their very nature, may result in restrictions
18 on trade, the WTO-SPS agreement specifies which factors
19 should be considered in the assessment of risks involved,
20 thus reducing the possible arbitrariness of phytosanitary
21 standards and ensuring consistent decision-making.

22 Phytosanitary measures to protect the health of
23 plants must be based as far as possible on the analysis and
24 assessment of objective and accurate scientific data. In
25 other words, countries must establish SPS measures on the

1 basis of an appropriate assessment of the actual risks
2 involved. The WTO-SPS Agreement also encourages the
3 government to select those measures that are not more trade
4 restrictive than required to meet a particular health
5 objective.

6 The adoption of IPPC's standards in accordance
7 with the WTO-SPS Agreement, therefore, can help ensure that
8 phytosanitary and other standards are not abused for
9 protectionist purposes, resulting in unnecessary barriers to
10 international trade. Thank you.

11

12 *(Tape 1B)

13

14 MS. CRAGHEAD: Does anyone else have a prepared
15 statement they would like to give at this time?

16 MS. BURROWS: I have a few remarks I would like to
17 give. This is Beth Burrows on the phone.

18 MS. CRAGHEAD: Okay. Are they questions or
19 remarks?

20 MS. BURROWS: Remarks.

21 MS. CRAGHEAD: Okay. Go ahead, Ms. Burrows. Will
22 you state and spell your name and give your affiliation,
23 please?

24 MS. BURROWS: My name is Beth, B-E-T-H, Burrows,
25 B-U-R-R-O-W-S. I'm with the Edmonds Institute, a

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1 public-interest, nonprofit group in Edmonds, Washington,
2 and, I believe, the only speaker of whom I'm aware who has
3 participated actively in the negotiations of the Biosafety
4 Protocol of the Convention on Biological Diversity. The
5 Edmonds Institute is especially happy to hear so much
6 concern with science-based measures and so much concern with
7 economic considerations subsequent to the introduction of
8 LMOs into ecosystems.

9 In some respects, this represents a new direction
10 for the United States. Having recently returned from
11 discussions in Cuba under the auspices of the CBD on
12 biosafety capacity building, it was noted by many of those
13 in the Third World that they were actively seeking help in
14 biosafety capacity building.

15 And so the Edmonds Institute is especially happy
16 to hear that the United States is so concerned to raise the
17 capacity of others in biosafety and hopes that this implies
18 that the United States will give much greater investment,
19 certainly than was evident at the meeting in Havana, in
20 biosafety capacity building in the Third World so that,
21 hearing my colleague from the American Crop Protection
22 Association and others, so that we will not have
23 unscientific or lack of competence in science
24 decision-making made under IPPC.

25 We note, and agree with our colleagues, that it is

1 very important that whatever transpires in the discussion
2 here be coordinated with the CBD. However, the Edmonds
3 Institute would recommend that this not be composed of
4 merely inviting the two secretariats to get together. As
5 I'm sure everyone there is aware, the Biosafety Protocol, as
6 are the rules that we are discussing here today, is still
7 under negotiation to a large extent as it moves toward a
8 moment in time when it may be implemented. I would hope
9 that the United States would continue to send a fuller
10 delegation to those deliberations so that we may not at the
11 end wind up with two bodies with different competence in
12 biosafety and no agreement as to how to settle their
13 disagreements.

14 We would invite everyone to notice that both our
15 moving processes and both often occur in different
16 ministries, which creates an even greater role for the
17 United States not only to raise capacity throughout the
18 world in environmental ministries, but also in agricultural
19 ministries. And we hope that the United States, with its
20 great concern for science-based assessment, will take up
21 that challenge, lest we simply force countries to leave out
22 LMOs altogether because of lack of ability to make a
23 science-based decision.

24 Finally, we welcome very much the discussion
25 focused on economic considerations, and we hope that this

1 will mean a new sign that the United States is prepared to
2 support in the CBD and other places socioeconomic
3 considerations in the decision making around biosafety.
4 Thank you very much for arranging to have phone connections
5 so those of us in other places can access this meeting, and
6 we look forward to your further deliberations.

7 MS. CRAGHEAD: Thank you for your comments. Any
8 other prepared statements, remarks? Okay.

9 Before we start with questions, I just want to
10 remind you of something that I said in the opening remarks,
11 that is, the panelists will provide clarification or
12 additional background information. Okay. So if there are
13 any questions, please come up to the hot seat and talk into
14 the mike.

15 MS. BLAUSTEIN: Thank you very much for this
16 opportunity. My name is Rich Blaustein, B-L-A-U-S-T-E-I-N,
17 and I'm a consultant to Defenders of Wildlife. I follow the
18 CBD and alien-species issues.

19 I have just a question for Dr. Enright. I read
20 the transcript for the meeting in March, and that was before
21 the April ICPM meeting, and I went through the report of the
22 ICPM. I wasn't here for the March meeting, but I read the
23 transcript, most of it, because I just heard about the
24 meeting recently. And in the April report there is quite a
25 bit that's relevant, but strongly so would be Appendix 13,

1 which would be the statements of the ICPM exploratory,
2 open-ended Working Group on the Phytosanitary Aspects of
3 GMOs, Biosafety, and Invasive species.

4 There is much in that annex that should be
5 encouraging, calling for the IPPC working together with the
6 CBD. Of course, there is the standard talk of the
7 secretariats working together and consulting. But, for
8 example, in alien species there is a recollection of Article
9 8(h) by the IPPC. And I will further mention a specific one
10 that caught my interest. Number 32 of Appendix 13
11 recommends the ICPM work with the CBD and other relevant
12 bodies to develop and deliver appropriate programs that meet
13 the needs of countries in regard to common areas of
14 interest.

15 My question is, in the context of this report,
16 this appendix, what's the impressions of the process of
17 clarification in relationship, and what can we expect on the
18 calendar in the next year, clarification for some of the
19 points raised from some of the earlier speakers, too?

20 MS. ENRIGHT: Thank you for your question. I was
21 going to come back to this issue of consultation. We
22 recognize that in order for an LMO standard under the IPPC
23 to be credible and be worthwhile and have some utility for
24 countries, that the IPPC and the CBD, or the ICCP, as it is
25 now, the Interim Commission for the Cartagena Protocol, are

1 going to have to consult. It's expected that at this
2 September meeting two of the bureau members of the ICCP, the
3 Interim Commission on the Cartagena Protocol, will be in
4 attendance. So we're not at all thinking that this is the
5 IPPC going it alone. That would be foolish.

6 One of the reasons, in addition to the fact that
7 there is the Cartagena Protocol out there -- it hasn't
8 entered into force, but steps being made with regard to its
9 implementation. We have that agreement, and we will all
10 have to operate under that agreement. But we also are very
11 well aware that ministries of agriculture are now aware that
12 they will be in many, many countries responsible for
13 implementing the obligations under the Cartagena Protocol.

14 Although they may not have had a primary role in
15 their countries in the negotiation of the protocol,
16 ministries of agriculture have existing mechanisms and
17 systems to deal with in this case phytosanitary issues
18 related to LMOs, and the onus is going to be on them to
19 adopt or amend those mechanisms so that they can implement
20 the appropriate obligations under the Biosafety Protocols.

21 So there has got to be a synergy there between, as
22 Ms. Burrows was saying, the CBD and the IPPC, but also
23 within country, and we don't have an impact on that, but
24 ministries of environment and ministries of agriculture. I
25 think those two things are a given for us.

1 MR. BLAUSTEIN: Can I ask? September will be
2 the --

3 MS. ENRIGHT: Oh, the calendar. I'm sorry. You
4 asked for future. What we would expect, then, under the
5 IPPC, and I'm sorry about all of the acronyms -- I think we
6 could do better -- the IPPC, the International Plant
7 Protection Convention, the specification will then go to the
8 March meeting of the ICPM, the interim governing body of the
9 IPPC.

10 MR. BLAUSTEIN: March ICPM 2002.

11 MS. ENRIGHT: Right, 2002. That will be the next
12 step for the IPPC process. And with regard to Dr.
13 Campbell's concern about the calendar, that is a target
14 date, and all of the activities under the IPPC are given
15 target dates so that they can be put on the work plan. We
16 certainly would agree with you that we wouldn't want to rush
17 a standard through just to meet a deadline. That wouldn't
18 be helpful to anyone.

19 With regard to the Biosafety Protocol process, I
20 would expect, and I can't speak for the bureau, but I would
21 expect that the bureau attendees at the September meeting
22 will report back to -- here we go again -- the ICCP meeting
23 in Nairobi the first week of October. And so the
24 consultative statements that I expect to come out of the
25 September meeting I expect would be considered by those

1 attending the October meeting of the ICCP. And I don't know
2 what -- I know it's very confusing -- I'm sorry. But I
3 would expect the ICCP then to respond to the report that
4 will come from the September meeting, the specification.

5 So with regard to chronology, the Biosafety
6 Protocol part, interested groups will have a chance to react
7 to the September meeting before the IPPC member countries
8 will. That will be the chronology.

9 MR. BLAUSTEIN: If I can just add, the fact that
10 there is a November meeting on environmental impact standard
11 for invasive species, that is going to be kept discrete from
12 this.

13 MS. ENRIGHT: Yes. That's correct.

14 MR. BLAUSTEIN: Okay.

15 MS. ENRIGHT: With regard to how that came about,
16 and for those of you who weren't at the March meeting or
17 haven't followed all of the dialogue, the increased profile
18 of environmental concerns, the increased profile of living
19 modified organisms, member states in the IPPC wanted further
20 guidance on both of those issues, the environmental concerns
21 that may be specific to invasives as well as the
22 environmental concerns that may be specific to LMOs,
23 recognizing that the IPPC has to operate within its scope,
24 so we are limited to plant-pest risks.

25 We're not going to try to go out. That's out of

1 our mandate and out of our scope. We wouldn't go beyond
2 that. Countries came seeking further guidance in their
3 assessment processes under each those umbrellas. Let me
4 just make one clarification on your comments about economic
5 importance. If you look at the current PRA -- how this came
6 about, I'm still not quite clear, but economic consequences,
7 the assessment of economic consequences, includes
8 environmental consequences that may be of a nonmonetary
9 nature. And I know that the IPPC is working to make that
10 more clear, that "economic" just doesn't mean monetary
11 consequences, but it includes nonmonetary, noncommercial
12 consequences.

13 So with regard to the current status of the IPPC,
14 countries have the ability or have the authority, if you
15 will, under the IPPC to perform a risk assessment for
16 invasive species and to perform a risk assessment for LMOs
17 should they wish. However, they don't feel as though they
18 had enough guidance.

19 What questions do we ask? What do we require from
20 an applicant? What are the risk-assessment criteria that we
21 may want to be looking at under each of these umbrellas that
22 we don't look at under our traditional plant-protection
23 quarantine operations? So for that reason these two
24 processes were begun, one, the one you're speaking about,
25 the environmental risk-assessment standard, which will meet

1 in November, and then the separate -- it met in August.
2 Right. And it will meet again in November? No. That's the
3 standard committee. I'm sorry. It met in August. The
4 environmental risk-assessment group met in August.

5 So in November that work will go to the IPPC
6 Standards Committee for review. Not finalization, just
7 review, just as an update as to how far they got in August.
8 And then the other process is then the risk assessment for
9 the LMOs.

10 MS. CRAGHEAD: Can you grab the mike from where
11 you are?

12 MS. CAMPBELL: Yes. This is Faith Campbell again.
13 Countries seeking guidance; I understand why they are
14 seeking guidance, and I think some international guidance
15 would probably be useful. But guidance from the IPPC is not
16 advice. It becomes the standard that the SPS agreement
17 enforces, and that is what worries me because advice,
18 particularly at this early stage of IPPC competence in both
19 the environmental area and LMOs, will suddenly become the
20 standard that every other country either has to follow or it
21 has to come up with a very good explanation why it's not
22 following, and that's what bothers me. You had better do it
23 right because it's going to become international law, and I
24 don't think in either one you're going to get there in two
25 years.

1 MS. CRAGHEAD: Thank you. Are there other
2 questions? Should we go to the phone? Okay. A question
3 from the phone.

4 MS. BURROWS: Well, the phone has a couple of
5 questions. Why doesn't Dr. Hansen give his question, and
6 then I will know when he is done to give mine?

7 MS. CRAGHEAD: Okay. Thanks.

8 MR. HANSEN: This is Michael Hansen from Consumers
9 Union again. The question I have relates to the meeting in
10 September. Do we have a list -- two questions about that.
11 Can we get a list of who is attending, number one; and
12 number two, are they going to permit any observers? Is this
13 a closed meeting, or will they permit any observers to
14 attend?

15 MS. ENRIGHT: As far as I know, there isn't a list
16 of participants. When I last spoke with the secretariat,
17 they had a very informal list. Europe had not put forth any
18 names yet. It's down time across the Atlantic right now.
19 So they are expecting to have participation around 50 or 55
20 people. I don't know whether there will be available on the
21 FAO IPPC Web site a list of participants. I certainly don't
22 have one that I'm able to give you one. Probably not. It
23 is an open-ended meeting.

24 Now, that means that if you would like to
25 participate -- I'm not the FAO secretariat or the IPPC

1 secretariat, but my understanding of "open ended" means that
2 if you would like to participate, you should contact the
3 secretariat and tell them of your interest. At the meeting
4 that we had in June 2000, observers were present, and they
5 made presentations when they were called upon or when they
6 felt the need to make a remark.

7 MR. HANSEN: So that would entail just getting in
8 touch with Nick Van DeGraff, then. Okay. Thanks.

9 MS. ENRIGHT: You're welcome.

10 MS. BURROWS: This is Beth Burrows again from the
11 Edmonds Institute. Two questions, one a further
12 clarification to the question Dr. Hansen asked. Is it
13 possible for Dr. Enright to make available to at least those
14 at this meeting a list of the pertinent meetings that will
15 be occurring? It occurred to me as she was listing various
16 meetings that I was becoming confused as to which meeting
17 was which, and it would be extremely helpful to know which
18 meetings will be coming up and to have some list available,
19 perhaps even on a Web site would be fine. That's my first
20 question.

21 MS. ENRIGHT: Sorry for the delay, Dr. Burrows.
22 I'm just checking with Nancy, who coordinates our Web site,
23 to see if he could put it on there, put the list of meetings
24 on there, and, yes, he can. He will make that available.

25 MS. BURROWS: Great. And also in the case of

1 meetings that are open ended, since not all secretariats
2 have the same rules about the meaning of "open ended," at
3 least that's my understanding -- some require accreditation
4 to the body, and some do not -- if you could further put on
5 the calendar who to contact if you want to go to the
6 meeting.

7 MS. ENRIGHT: Okay.

8 MS. BURROWS: I would appreciate that. Thank you.

9 My second, and this is a question to the whole
10 committee and maybe to people not on the committee but who
11 will read the report of this meeting, again, to capacity
12 building. When the United States took up this challenge
13 that was offered it by your report in response to the
14 requests of countries, were there also moves in the United
15 States to find funds to enable these countries to raise
16 their capacity to do the kinds of assessment we will be
17 advising them about, whether we advise them rightly or
18 wrongly, completely or competently?

19 It's not simply a matter of issuing a booklet,
20 here is how you do it. It requires a body of science and
21 training that may not, as I think Dr. Campbell noted, may
22 not be available in the appropriate ministry that is
23 addressing this. Is the United States prepared to help
24 these countries raise their capacity in biosafety by
25 investing in their infrastructures, or are you advising them

1 to do so?

2 MS. ENRIGHT: Dr. Burrows, John Greifer is coming
3 over to the microphone.

4 MR. GREIFER: Let me try to as best answer the
5 question. We do have ready resources deployed around the
6 world, APHIS does with its foreign service, and these are
7 plant-animal health specialists that do provide technical
8 assistance. And so we often don't always get the credit we
9 should for a lot of that work that we do overseas. It tends
10 to be right now more traditional, the issues. We don't have
11 folks out there really that are as up to speed as we would
12 like them yet to be able to be providing technical advice
13 and assistance directly on LMO issues.

14 As far as the IPPC goes, this is a major, major
15 topic, capacity building. And, of course, the question
16 always becomes, are the resources available for that? The
17 IPPC operates on a shoe string budget right now. We're
18 doing what we can to try to direct more attention to the
19 important activities that the IPPC plays, not only in plant
20 protection in a traditional sense, but also in some new,
21 contemporary issues, such as LMO invasive species, et
22 cetera.

23 So we're working on trying to draw more attention
24 not just within our own government, but also with other
25 governments as well because the decisions about directing

1 FAO resources or resources with some of these other
2 organizations, not a U.S. decision. It's going to be one of
3 working with other countries to agree on certain priorities
4 about how some of that international money needs to be
5 spent.

6 The first, just as a matter of, I think, the
7 important work that we're doing with IPPC is to try to
8 develop a diagnostic tool so that countries have a manner in
9 which to identify their real needs so that once money does
10 become available, if it becomes available through various
11 sources, that we are not just throwing money without having
12 a clear idea of what specific needs these countries have.

13 Over the past two years, the New Zealand
14 government put up money to develop a diagnostic tool for
15 countries to self-assess themselves in the plant-quarantine,
16 plant-protection area. And so part of that diagnostic tool
17 does include trying to assess their strengths or their
18 weaknesses in terms of being able to assess pests. They
19 have the ability also to look at LMO products as well.

20 Right now, the emphasis is on trying to get this
21 diagnostic tool in place, get it completed. It's being
22 piloted with several developing countries to see if it's a
23 useful way for countries to determine what their true needs
24 are.

25 So we have a long way to go. The

1 capacity-building issue is not unique to the IPPC, and
2 probably the biggest challenges in front of us are going to
3 be, as is obvious, is really going to be the question of
4 resources.

5 MS. BURROWS: I don't know if it's proper for me
6 to make a remark in response to an answer to a question I
7 asked. I need the chair's advice.

8 MS. CRAGHEAD: A quick remark, I suppose, would be
9 appropriate.

10 MS. BURROWS: In the context of the Biosafety
11 Protocol, it was noted, particularly by developing
12 countries, that putting rules into place before people have
13 the capacity to implement those rules or to understand how
14 those rules will affect them in their own countries is
15 extremely problematic.

16 I would hope that the United States will not push
17 to get a rule in place before the biosafety capacity of
18 those whose jobs it will be to implement it in their country
19 is high enough so that that implementation is something that
20 is, to use earlier remarks, science based and capable.
21 Thank you.

22 MS. CRAGHEAD: Thank you. I would just like to
23 interject, because I didn't do it earlier, that John Greifer
24 is the director of APHIS's trade-support team. There was a
25 question on this side of the room. Thank you for waiting.

1 MR. KUBICEK: I'm Quinton Kubicek, K-U-B-I-C-E-K,
2 with DuPont, and I have a request and a question. The
3 request comes from what seems to be a need for transparency,
4 and that was Michael Hansen's original question earlier in
5 the day reminded me of it. But at the March meeting we
6 could only recall a couple of countries that were asking for
7 this LMO standard. I recall India being one. The other one
8 couldn't be recalled, but it also seemed to have been made
9 -- the requests for these seem to have come more from
10 hallway conversations rather than official intervention.

11 So in today's meeting it seems like this number of
12 countries, from what seems to be personal anecdotal recall,
13 seems to increase. So perhaps my request is that the
14 minutes of these meetings that are held also be put in
15 addition on the Web site so that we could independently look
16 at them. I realize that many of the minutes may not be
17 available, but rather than depending on personal anecdotal
18 recall, if we could have the minutes, or if they are
19 available, then we could independently assess the number of
20 countries that are asking for these things or their
21 positions. And obviously, if there are hallway or even
22 bathroom conversations, obviously those aren't official
23 minutes, but neither they should reflect the minutes.

24 And my question is -- Nancy, I presume this would
25 be for you -- it was mentioned that for the NAPO standard to

1 be a 60-day comment period. The question is, will it also
2 be the same 60-day comment period for Mexico and Canada, and
3 if not, will that comment period be longer or shorter for
4 each of the countries?

5 MR. KLAG: You're referring to the standard we
6 posed on the Web site.

7 MR. KUBICEK: The one that's coming up.

8 MR. KLAG: Yeah. The country consultation period
9 is the same for all of the countries, yeah. And once that's
10 completed, then we take the comments and review them, and we
11 incorporate them if possible or when necessary and then try
12 to move toward a final standard.

13 MR. KUBICEK: No. I understand that. The
14 question was whether a 60-day for both Mexico and Canada.

15 MR. KLAG: That's right. Yeah. As far as the
16 first comment on the minutes of the proceedings of the
17 meeting, they are posted on the IPPC Web site. You can
18 obtain them there. Of course, that's the official minutes
19 from the meeting. It's, I guess, the consolidation of what
20 the members decided on, so it doesn't go into detail on who
21 brought what up exactly and who supported what. It's just
22 what the final outcome is.

23 MS. CRAGHEAD: There was one other question on
24 this side. Did you want to ask it?

25 A PARTICIPANT: It's answered.

1 MS. CRAGHEAD: It's answered. Are there any other
2 questions?

3 (No response.)

4 MS. CRAGHEAD: On the phone, any other questions?
5 No?

6 MS. BURROWS: No.

7 MS. CRAGHEAD: Great. Well, thanks very much for
8 coming today. We really appreciate all your comments, and
9 we hope you have a really good day. Thanks for coming.

10 (Whereupon, at 11:25 a.m., the meeting was
11 concluded.)

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STATEMENT OF KENT SWISHER

The American Seed Trade Association (ASTA) is providing these comments in response to the Federal Register notice announcing a public meeting to solicit views on the development of international standards concerning the plant risks associated with LMOs. 66 Fed. Reg. 39136 (2001). In general, ASTA cautiously endorses such standards development processes under the auspices of the IPPC. Where one or more international agreements exist covering various areas, we believe that existing international organizations and mechanisms should be used wherever possible, instead of the establishment of new organizations or procedures, or both. The objectives and mechanisms of the IPPC and of other international treaties can coexist and complement each other. At the same time, we also want to emphasize that duplication should be avoided whenever possible.

By way of background, founded in 1883, ASTA is one of the oldest trade organizations in the United States. Its membership consists of about 900 companies involved in seed production and distribution, plant breeding, and related industries in North America. Its mission is to enhance the development and free movement of quality seed worldwide. Many of ASTA's members, large and small, are engaged in

1 research and development activities designed to enhance the
2 quality, variety, productivity, and availability of
3 agricultural seeds. Some of this research involves the use
4 of molecular and other new techniques for genetic
5 modification, although the industry still relies heavily on
6 traditional breeding methods such as hybridization to
7 produce new plant varieties and to otherwise accomplish
8 desirable genetic changes. The Association remains
9 committed to the development and commercialization of all
10 genetically altered plants that comply with applicable
11 federal and international laws and regulations.

12 ASTA and its members have a long and valued
13 relationship with organizations involved in implementing the
14 IPPC, a multilateral treaty adopted in 1952. ASTA has
15 cooperatively worked for many years with bodies such as the
16 regional plant protection organizations in the development
17 of standards and other criteria to prevent the spread and
18 introduction of plant pests of plants and plant products and
19 to promote measures for their control. IPPC, therefore, can
20 be the appropriate forum for the development and application
21 of harmonized phytosanitary measures and the elaboration of
22 international standards.

23 The IPPC's scope is to secure "common and
24 effective action to prevent the spread and introduction of
25 pests of plants and plant products and to promote measures

1 for their control ..." (Article 1.1). This broad nature of
2 the IPPC's mandate governing plants is not limited to
3 cultivated plants, and protection is not limited to direct
4 damage from pests. The coverage of the IPPC includes weeds
5 and other articles that have indirect effects on plants.
6 The scope of the Convention therefore already applies to the
7 protection of wild flora that make an important contribution
8 to the conservation of biological diversity.

9 A particularly important aspect of the IPPC is
10 that it involves the collaboration with other organizations
11 to avoid duplication and encourage harmonization for the
12 implementation of obligations of the other instruments.
13 Given this overall mandate, it is not surprising to us, and
14 indeed it may be appropriate, that the IPPC address plant
15 health issues that might be presented by LMOs or other
16 products of modern biotechnology that fall within the scope
17 of the IPPC. Indeed, existing national mechanisms and other
18 structures for phytosanitary measures can perhaps help serve
19 as a model for developing approaches for managing risks
20 associated with LMOs and other products of modern
21 biotechnology. IT is our view that the plant pest risks
22 associated with LMOs can fall clearly within the scope of
23 the IPPC, as do invasive species and quarantined pests. On
24 the other hand, not all seeds that may be considered LMOs
25 are necessarily plant pests or pose plant pest issues.

1 One of the main reasons why we cautiously endorse
2 the use of IPPC mechanisms is that the IPPC plays a key role
3 in trade. It is recognized by the World Trade Organization
4 (WTO) in the Agreement on Application of Sanitary and
5 Phytosanitary measures (the WTO-SPS Agreement) as a source
6 of international standards for phytosanitary measures
7 affecting trade. Since phytosanitary standards, by their
8 very nature, may result in restrictions on trade, the WTO-
9 SPS Agreement specifies which factors should be considered
10 in the assessment of risk involved, thus reducing the
11 possible arbitrariness of phytosanitary standards and
12 ensuring consistent decisionmaking. Phytosanitary measures
13 to protect the health of plants must be based as far as
14 possible on the analysis and assessment of objective and
15 accurate and scientific data. In other words, countries
16 must establish SPS measures on the basis of an appropriate
17 assessment of the actual risks involved. The WTO-SPS
18 Agreement also encourages governments to select those
19 measures that are not more trade restrictive than required
20 to meet a particular health objective.

21 The adoption of IPPC standards in accordance with
22 the WTO-SPS Agreement therefore can help ensure that
23 phytosanitary and other standards are not abused for
24 protectionist purposes, resulting in unnecessary barriers to
25 international trade.

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Cordially yours,

Dean Urmston

Executive Vice President

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STATEMENT OF PETER T. JENKINS

The Center for Food Safety (CFS) is pleased to submit comments on the development of an international standard concerning the plant pest risks associated with living modified organisms (LMOs). CFS is a nonprofit, membership organization established in 1997 to address the increasing concerns about the impacts of our food production system on human health, animal welfare, and the environment. We believe it is vital that the IPPC's approach to LMOs mesh well with the Convention on Biological Diversity (CBD) Cartagena Protocol on Biosafety. The parties and secretariats of both international laws clearly seek better coordination.

Background.

To some extent, LMOs represent a distinctive subset of the issues pertaining to introduction of non-native, potentially invasive pests. The nested relationship of these topics has been repeatedly recognized. The Expert Consultation on IPPC-CBD Cooperation specifically stated "... some LMOs have the potential to be invasive species." Here are the words of the President of the General Assembly of the UN announcing this year's theme for International Biological Diversity Day as "Biodiversity and Management of

1 Invasive Alien Species":

2 While it is a fact that non-native animal species
3 may be harmful to land and crops, there are still
4 controversies and differences of opinion.

5 Genetically engineered species are another cause
6 for concern. Today, we already know of examples
7 where genetically engineered species pollute the
8 germplasms of the indigenous ones with dire
9 consequences.

10 The IPPC standard on plant pest risks should
11 acknowledge that two types of LMOs may exist:

12 1. LMOs that in their nonmodified form were
13 recognized plant pests. A good example is
14 the current USDA APHIS effort to release (for
15 biological control purposes) a genetically
16 modified version of the pink bollworm, a
17 major cotton pest. In general, the
18 modification of such species may increase,
19 decrease, or not affect the pest risk
20 presented by their release.

21 2. LMOs that in their nonmodified form were not
22 recognized plant pests but whose status may
23 have changed. A good example is herbicide-
24 resistant canola, the genetic modification of
25 which increased the weediness of the plant,

1 as an unwanted and difficult-to-eradicate
2 volunteer. Again, in general, the
3 modification of such species may increase,
4 decrease, or not affect the pest risk
5 presented by their release.

6 To the extent that a proposed LMO movement or
7 release prevents invasiveness issues that may impact the
8 environment, we note that the IPPC has a separate ongoing
9 process to prepare an expanded "environmental impact
10 standard" in coordination with the CBD. Each of the
11 concerns that CFS expressed in its earlier comment
12 (attached) related to that new environmental impact standard
13 also apply to potentially invasive LMOs. We further note
14 that standards for both nonmodified invasives and
15 potentially invasive LMOs. We further note that standards
16 for both nonmodified invasives and potential invasive LMOs
17 must address prevention of both intentional and
18 unintentional introductions.

19 The parties and secretariat to the Biosafety
20 Protocol are the bodies of acknowledged primary competence
21 to elaborate specific LMO standards, which they are expected
22 to do in the future in full coordination with the IPPC.
23 Various LMO risk issues are far removed from the
24 pest/invasive species areas of IPPC competence, such as gene
25 "jumping," resistance management for pesticidal crops, and

1 so on (discussed below). Specific IPPC standards related to
2 these LMO issues would not be helpful, even though they
3 might be conceptualized as "plant pest" issues in some
4 senses. Such IPPC standards would cause confusion and would
5 not come from the body of greatest expertise. Further, the
6 parties, obligations, information mechanisms, and other
7 procedures differ widely between the Biosafety Protocol and
8 the IPPC, such that each should draft the standards most
9 within its area of competence, even though the coverage of
10 the laws overlaps somewhat.

11 Specific Recommendations

12 The following points address the five announced
13 topic areas of the proposed IPPC standard. Each of these
14 recommendations is consistent with the report of the April
15 2001 ICPM meeting (at paragraph 34), and each reinforces the
16 sensible ICPM goals of avoiding duplication and encouraging
17 harmonization with the Biosafety Protocol.

18 "1. Identifies the plant pest risks associated
19 with LMOs/products of modern biotechnology."

20 Rather than seeking to list in detail or
21 characterize the IPPC view of all LMO risks, the IPPC LMO
22 standard should state that a major subset of the risks
23 presented by LMOs correspond with the pest/invasive species
24 risks already addressed in existing IPPC standards or in the
25 ongoing development of the expanded environmental impact

1 statement.

2 "2. Identifies elements relevant to the
3 assessment of these plant pest risks."

4 Consistent with the point made above, the IPPC
5 standard should not address risk elements of LMOs beyond the
6 major subset of risks that coincide with pest/invasive
7 species risks presented by nonmodified species. The
8 standard should indicate reliance on the Biosafety Protocol
9 to identify other risk elements, to be done in the future in
10 consultation with the IPPC.

11 "3. Considers existing international regulatory
12 frameworks and guidelines."

13 Here, of course, the standard should positively
14 reference the Biosafety Protocol as the appropriate primary
15 source for LMO standards beyond the pest/invasive species
16 risks discussed herein.

17 "4. Identifies areas within pest risk analysis
18 standards and other international standards for
19 phytosanitary measures that are relevant to the
20 phytosanitary aspects of LMOs/products of modern
21 biotechnology."

22 No other directly relevant pest risk analysis
23 standards exist beyond the IPPC and CBD standards on
24 pest/invasive species risks presented by nonmodified
25 species.

1 "5. Identifies the plant pest risks associated
2 with LMOs/products of modern biotechnology that are not
3 adequately addressed by existing ISPMs."

4 Here, the IPPC standard can clarify that the
5 following risks (which might in some conceptualizations be
6 considered as plant risks) lie beyond existing ISPMs and
7 beyond direct IPPC jurisdiction and competence, and rest
8 primarily with the Biosafety Protocol:

- 9 - "jumping of unstable inserted genes from LMOs
10 to other species (including possibly humans),
11 - genetic contamination of organic and
12 conventional crops by LMOs,
13 - gene flow from LMOs to wild relatives,
14 - protection of centers of crop origin from LMO
15 genetic contamination,
16 - herbicide and pesticide resistance management
17 for LMOs,
18 - allergenicity and toxicity of LMOs,
19 - modified vectors of plant diseases to the
20 extent they also may vector animal or human
21 diseases,
22 - sociocultural issues presented by LMOs, and
23 so on.

24 The U.S. delegation to the IPPC should support the
25 continued synergy presented by these issues. Specifically,

1 this means the improved dialogue among the parties and
2 secretariats of both agreements and, most positively, the
3 much-needed capacity building for developing countries to
4 respond to "biosecurity" issues defined broadly.

5 Strengthening resources, personnel, and scientific training
6 in developing countries to address LMO risks should improve
7 their capacity to address pest/invasive species risk, and
8 vice versa.

9 Please contact me if you have any questions
10 regarding this comment. Please provide the opportunity to
11 comment further on the draft standard when it is produced
12 and put me on the list to receive any future communications
13 related to this effort.

14

15 Sincerely,

16

17 Peter T. Jenkins

18

19 Center for Food Safety

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1 Attachment

2 Ron A. Sequeria, USDA

3 Daniel A. Fieselmann, USDA

4 Re: Draft IPPC Environmental Impact Standard

5 Dear Drs. Fieselmann and Sequeira:

6 This is to reiterate the remarks I made verbally
7 at the useful public meeting held 7/24, and to add a few
8 related comments. Thank you again for your interest and
9 involvement in making the IPPC mesh with the decisions of
10 the parties to the Convention on Biological Diversity as
11 they implement Article 8(h) on alien species. Better
12 integration is clearly the intent of the Secretariats and
13 Parties to both international laws. International trade is
14 the leading pathway for unwanted invasives, and the IPPC is
15 in a critical position to facilitate the prevention of
16 future plant pests, which may cause further serious economic
17 and environmental harm.

18 Again, let me stress the importance of referring
19 to the Global Invasive Species Programme (GISP) "Global
20 Strategy," available online on the CBD website at
21 [http://www.biodiv.org/doc/meetings/sbstta/sbstta-](http://www.biodiv.org/doc/meetings/sbstta/sbstta-06/information/sbstta-06-inf-09-en.pdf)
22 [06/information/sbstta-06-inf-09-en.pdf](http://www.biodiv.org/doc/meetings/sbstta/sbstta-06/information/sbstta-06-inf-09-en.pdf), as well as to the
23 related International Union for the Conservation of Nature
24 (IUCN) Guidelines for the Prevention of Biodiversity Loss
25 Caused by Alien Species, online at

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1 <http://www.iucn.org/themes/ssc/pubs/policy/invasiveEng.htm>.
2 The CBD Parties have recognized both GISP and IUCN as
3 appropriate expert bodies whose formal reports and
4 guidelines aid the implementation of CBD Art. 8(h), as the
5 party nations and other international bodies like IPPC
6 develop related standards. Thus, as a rudimentary matter,
7 the environmental standard developed by the IPPC should
8 explicitly and positively reference the GISP strategy and
9 IUCN guidelines, as the CBD parties have done. Again, these
10 diverse, international expert bodies are not equivalent to
11 "the environmentalists," as was suggested at the meeting.

12 Most relevant to your deliberations are the
13 following sections from the IUCN Guidelines:

14 Section 5.1 on Principles:

15 "Intentional introductions should only take place
16 with authorisation from the relevant agency or authority.
17 Authorisation should require comprehensive evaluations based
18 on biodiversity considerations (ecosystem, species, genome).
19 Unauthorised introductions should be prevented.

20 "The intentional introduction of an alien species
21 should only be permitted if the positive effects on the
22 environment outweigh the actual and potential adverse
23 effects. This principle is particularly important when
24 applied to isolated habitats and ecosystems, such as
25 islands, fresh water systems or centres of endemism."

1 And Section 5.2 on Unintentional Introductions:
2 "- Identify and manage pathways leading to
3 unintentional introductions. Important pathways
4 of unintentional introductions include: national
5 and international trade, tourism, shipping,
6 ballast water, fisheries, agriculture,
7 construction projects, ground and air transport,
8 forestry, horticulture, landscaping, pet trade and
9 aquaculture.

10 "- Contracting parties to the Convention on
11 Biological Diversity, and other affected
12 countries, should work with the wide range of
13 relevant international trade authorities and
14 industry associations, with the goal of
15 significantly reducing the risk that trade will
16 facilitate the introduction and spread of alien
17 invasive species.

18 "- Put in place quarantine and border control
19 regulations and facilities and train staff to
20 intercept the unintentional introduction of alien
21 species. Quarantine and border control
22 regulations should not be premised only on narrow
23 economic grounds that primarily relate to
24 agriculture and human health, but, in addition, on
25 the unique biosecurity threats each country is

1 exposed to.

2 "- Improved performance at intercepting
3 unintentional introductions that arrive via major
4 pathways may require an expansion of the
5 responsibilities and resourcing of border control
6 and quarantine services.

7 "- Address the risks of unintentional
8 introductions associated with certain types of
9 goods or packaging through border control
10 legislation and procedures.

11 "- Put in place appropriate fines, penalties, or
12 other sanctions to apply to those responsible for
13 unintentional introductions through negligence and
14 bad practice.

15 "- Ensure compliance by companies dealing with
16 transport or movement of living organisms with the
17 biosecurity regimes established by governments in
18 the exporting and importing countries. Provide
19 for their activities to be subjected to
20 appropriate levels of monitoring and control."

21 There are several related specific provisions in
22 the IUCN Guidelines and other provisions on environmental
23 impact assessment, directly relevant to your work, which you
24 should fully consider.

25 The GISP Global Strategy document represents

1 advice developed over five years by a team of mostly
2 academic advisors based on numerous international meetings,
3 several broad workshops, and subsidiary publications. The
4 whole Strategy is essential reading for your work, but in
5 particular I recommend Chapters 4, 5, 6, and 7 (especially
6 Strategy elements 5 and 6).

7 Some other points:

8 1. A key goal should be to strengthen the
9 legitimacy, from the perspective of the IPPC
10 and the WTO Sanitary and Phytosanitary (SPS)
11 Agreement, of the "clean list" approach to
12 preventing harmful invasions. This approach
13 has been adopted by Australia for weeds (at
14 least), by New Zealand for what I understand
15 to be all introductions, and by various other
16 entities, including some U.S. States for
17 various broad taxonomic groups and even by
18 USDA in some of its quarantine approaches.
19 The point is that this "precautionary
20 approach" of assuming "guilty until proven
21 innocent" is legitimate scientifically for
22 both considering the risks of individual
23 species and the risks of whole trade
24 pathways, such as, for example, all raw wood
25 or all woody plants from China. Your

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1 environmental standard should take care to
2 facilitate this notion, as the environment
3 has suffered terribly in this country and
4 globally from the laissez faire approach of
5 allowing any new species in unless it's on a
6 "dirty" or prohibited list. The dirty list
7 approach is just a big experiment, with U.S.
8 ecosystems as the laboratories.

9 Nevertheless, the clean list approach
10 conceivably could be challenged as a trade
11 barrier under the WTO-SPS Agreement, unless
12 bodies like the IPPC bolster the scientific
13 legitimacy of taking a precautionary
14 approach.

- 15 2. The environmental standard will be completely
16 inadequate if it defines plant pests that may
17 already be present in a given nation as
18 limited to those that are subject to
19 "official control programs." Environmental
20 pests are much less likely to receive the
21 funding and attention to be subject to
22 "official control" than "economic" pests are,
23 so you need to make sure that subsidiary and
24 clarifying definitions you use in the
25 environmental standard reflect this. You

1 should take care throughout your efforts to
2 make sure the definitions and standards are
3 not cramped by traditional agricultural pest
4 notions.

- 5 3. Your environmental standard should reflect
6 the fact that old-style, "species by species"
7 or "commodity by commodity" risk analysis may
8 not be adequate to protect the environment
9 from the acknowledged onslaught of new
10 potential invaders carried through vastly
11 increased international commerce and
12 tourism. In view of the substantial
13 uncertainty and risk that may be presented by
14 whole new trade routes, classes of trade
15 commodities, or new transportation and
16 packaging technologies, the standard must be
17 able to accommodate doing risk analysis on a
18 broad "pathway" basis and on the basis of
19 broader taxonomic groups than just species.
20 Good science must remain the basis for making
21 decisions, but the GISP and IUCN documents as
22 well as numerous supporting scientific
23 reports demonstrate that there is a good
24 scientific basis, including new predictive
25 models and decisionmaking protocols, for a

1 more protective approach.

2 4. On the particular 5 potential environmental
3 impact topics already identified by the IPPC
4 Working Group, you should add one more as a
5 catch-all for impacts that may occur but may
6 not fall under your 5. The 6th should say,
7 "any other potentially significant
8 environmental impact." Broad provisions like
9 this are appropriate in view of the
10 incredibly diverse array of potential impacts
11 of plant pests on the environment.

12 5. Let me recommend another useful document on
13 environmental impact assessment related to
14 biodiversity protection, which is really what
15 your task is all about. The White House
16 Council on Environmental Quality (CEQ)
17 oversees the implementation of the National
18 Environmental Policy Act, which, as you know,
19 requires Federal agencies such as USDA to do
20 environmental impact assessment for major
21 actions. In 1993, CEQ issued an official
22 guidance document called: "Incorporating
23 Biodiversity Considerations into
24 Environmental Impact Analysis under the
25 National Environmental Policy Act." (This is

1 available at the CEQ NEPAnet website,
2 <http://tis.eh.doe.gov/nepa/tools/guidance/Guidance-PDFs/iii-9.pdf>.)

3
4 This report concurs with the significance of
5 the threat of invasives to biodiversity,
6 noting that the concept of diversity
7 contemplates native, not introduced, species.
8 It provides key examples (summarized below)
9 of "weakness in current NEPA practice"
10 related to biodiversity, which also may apply
11 to analyzing invasives prevention and control
12 issues. Let me suggest that you consider
13 these past tendencies of Federal agencies
14 documented by CEQ and that you seek to avoid
15 them as you develop the IPPC environmental
16 standard:

17 o "Inadequate consideration of
18 'non-listed' species." Simply
19 relying on governmental lists
20 of threatened and endangered
21 species is unlikely to capture
22 the full scope of the
23 biological diversity that may
24 be affected.

25 o "Inadequate consideration of

1 'non-protected' areas."
2 Similar to the issue of listed
3 species, full consideration
4 should be given to important
5 habitat areas that may not be
6 officially designated as
7 protected.

8 o "Inadequate consideration of
9 'non-economically important'
10 species." When species that
11 may be affected by a proposal
12 have quantifiable recreational
13 or commercial importance, they
14 tend to get more emphasis in
15 NEPA documents than species
16 whose value is harder to
17 quantify.

18 o "Inadequate consideration of
19 cumulative impacts." Effects
20 analysis should include the
21 ecosystem or regional scales.
22 Without large-scale
23 consideration and mitigation
24 of harmful impacts, the
25 "ecosystem patterns and

1 process so important to
2 biodiversity will not be
3 sustained over the long term."

4 In sum, according to CEQ: "Current NEPA
5 analyses often (1) focus on species rather
6 than ecosystems; (2) address the site scale,
7 rather than the ecosystem or regional scale;
8 and (3) concentrate on immediate short-term
9 impacts, rather than likely future impacts.
10 Because of these weaknesses, major impacts
11 may be missed...". All of these ideas are
12 directly on point to your work and you should
13 explicitly provide in your standard that
14 future analysis of potential environmental
15 plant pests should avoid the pitfalls CEQ has
16 noted.

17 6. Your final document should include specific
18 encouragement and recommend means for funding
19 for cooperative monitoring by CBD and IPPC of
20 how the member parties are actually
21 performing in implementing Art. 8(h) and the
22 IPPC environmental standard with respect to
23 plant pests. In other words, an annual
24 report on the status and risks of
25 environmental plant pests globally would be

1 extremely useful in evaluating implementation
2 of both the CBD and IPPC.

3 Please contact me if you have any questions on the
4 above. Please put me on the mailing list for any future
5 communications related to this effort. I look forward to
6 providing more detailed comments on the draft standard when
7 it is produced.

8 Sincerely,

9 Peter T. Jenkins

10 Attorney/Policy Analyst

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OPENING STATEMENT OF ANISSA CRAGHEAD

In April, the IPPC's Interim Commission on Phytosanitary Measures (ICPM) recommended that an international standard be completed by April 2004 to address the plant-pest risks associated with living modified organisms (LMOs). As the first step toward development of an LMO standard, the ICPM requested that an open-ended, expert working group be convened to produce a detailed specification for an LMO standard. The expert working group is scheduled to meet September 10-14, at FAO headquarters in Rome, under the terms of reference that were printed in the Federal Register notice for today's meeting. The specification developed in September will then be considered at the next meeting of the ICPM in March of 2002.

As discussed at our March 8 public meeting, the decision to consider an IPPC standard for LMOs was the result of requests from IPPC member countries in 1999 for guidance in evaluating the plant-pest risks associated with LMOs, and from the subsequent recommendations made in June of 2000 by a meeting of an IPPC working group formally charged with considering the need for an LMO standard.

Our goal in the IPPC exercise is to develop substantive guidelines for the assessment of plant-pest

1 risks associated with LMOs; i.e., to set out information
2 requirements, assessment criteria, and risk-mitigation
3 measures that countries may want to consider as they make
4 decisions regarding the importation and use of transgenic
5 organisms.

6 Your comments today will help us prepare for the
7 September meeting at the IPPC and will also help to inform
8 our approach to the overall LMO standard development
9 process.

10 Before hearing from the first speaker, I'd like to
11 draw your attention to an effort that will parallel and
12 perhaps serve as a model for the IPPC LMO standard. As
13 noted at the March 8 public meeting, the U.S. has begun to
14 address the plant-pest risks associated with genetically
15 engineered organisms at the regional level with Canada and
16 Mexico under the North American Plant Protection
17 Organization, or NAPPO. In this draft NAPPO standard, we
18 have focused first on transgenic plants and have divided the
19 draft standard into four modules based on the intended use
20 of the transgenic plant. The first two models of the draft
21 NAPPO standard should be available on the NAPPO Web site,
22 www.nappo.org, by the end of next week, after which those
23 modules will be available on our APHIS website for a 60-day,
24 country-comment period. The APHIS website is printed on the
25 handout at the back of the room.

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STATEMENT OF LEAH PORTER

The American Crop Protection Association (ACPA) is submitting comments in response to the above-captioned notice published in the July 27, 2001 Federal Register. 66 Fed. Reg. 39136 (2001).

ACPA is a not-for-profit trade organization representing the major manufacturers, formulations and distributors of crop protection, pest control, and biotechnology products. ACPA member companies produce, sell, and distribute virtually all the scientific technology products used in crop production by American farmers.

We welcome the opportunity to comment on the development of an international standard concerning the plant-pest risks associated with living modified organisms (LMOs).

We encourage APHIS's participation as part of the expert working group under the auspices of the International Plant Protection Convention (IPPC), given IPPC's recognition by the World Trade Organization. As the IPPC's Interim Commission on Phytosanitary Measures (ICPM) commences its work, we would like to emphasize the following:

1. Evaluation of all LMOs should follow a science-based, transparent, and timely

- 1 risk-assessment paradigm. An LMO should not be
2 assumed to be a plant pest unless the risk
3 assessment (one utilizing IPPC standards or
4 endorsed equivalent) concludes that phytosanitary
5 consideration is merited. A discussion of LMO or
6 products of modern biotechnology within the ICPM
7 standard-setting efforts must be within the
8 context of seeds for planting purposes.
- 9 2. A discussion of LMOs/products of modern
10 biotechnology within the ICPM standard-setting
11 efforts must be within the context of seeds for
12 planting purposes.
- 13 3. A discussion of LMOs/products of modern
14 biotechnology within the ICPM standard-setting
15 efforts must appropriately assess benefits and
16 potential environmental impacts within a
17 science-based framework.
- 18 4. Transboundary (international) movement of seeds
19 derived using modern biotechnology should use the
20 existing invoicing system, with the necessary
21 changes rather than requiring a phytosanitary
22 certificate for each shipment. Once an importing
23 country has conducted the required risk assessment
24 on a transgenic event and granted approval,
25 transboundary shipments should not require

1 approval of the importing country prior to each
2 shipment.

3 Thank you for giving the American Crop Protection
4 Association the opportunity to comment.

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STATEMENT OF FAITH THOMPSON CAMPBELL, Ph.D.

American Lands Alliance is pleased to submit comments on the development of an international standard concerning the plant pest risks associated with living modified organisms (LMOs). American Lands is a nonprofit organization that works with grassroots environmentalists across the country to protect and restore native forests, grasslands, and aquatic ecosystems.

American Lands calls on the USDA Animal and Plant Health Inspection Service (APHIS) to ensure that the International Plant Protection Organization (IPPC) proceeds with great caution in exploring whether to develop an international standard concerning the plant pest risks associated with LMOs. First, the IPPC must ensure that its approach is carefully coordinated with the Convention on Biological Diversity (CBD) Cartagena Protocol on Biosafety.

Second, the IPPC lacks expertise in many crucial components of a truly science-based evaluation of whether to allow importation of an LMO. Proper risk analyses of LMOs will be complex. The IPPC's current risk assessment process is already under criticism -- explicitly by American Lands and scientific colleagues, implicitly in the guidelines developed by the World Conservation Union/IUCN and under

1 consideration by the parties to the CBD. The IPPC
2 acknowledges weaknesses in some areas. For example, the
3 IPPC is at only an early stage of developing its own
4 environmental standard -- a partial but vital component of
5 any risk analysis for LMOs as well as for invasive species.
6 It is still unclear how well the draft environmental
7 standard will fill the need (see American Lands' comments on
8 the current draft, which are attached).

9 For these reasons, any attempt by the IPPC to
10 develop a standard on LMOs must move slowly.

11 Furthermore, we believe that an IPPC standard on
12 LMOs must differ fundamentally from existing IPPC standards.
13 The IPPC should endorse the Royal Society of Canada's (2001)
14 conclusion that commercial use of any LMO should occur only
15 after the specific genetically engineered line has been
16 thoroughly studied at six relevant levels: genome,
17 transcript, protein, metabolite, health impacts, and
18 environmental impacts. Regulators must rely on data from
19 empirical studies rather than assumptions and subjective
20 judgments based on hypotheses. Furthermore, countries
21 should be encouraged to subject their analyses to peer
22 review and to take care to avoid conflicts of interest
23 within the regulatory agency (Royal Society 2001).

24 Furthermore, these studies must be conducted on
25 each genetic line of the LMO and in the context of each

1 ecosystem (managed or natural) into which introduction is
2 proposed. Such apparently duplicative studies are warranted
3 because of the risk from pleiotropic effects. Genetic
4 engineering does not result in the precise placement of a
5 new piece of genetic code into a carefully selected section
6 of the new host's genome. Rather, each insertion occurs at
7 a nearly random location -- resulting in potential
8 differences in the way the gene functions. Furthermore, the
9 remainder of the host's genome is also affected. In short,
10 insertion of a single gene will be accompanied by a range of
11 changes that will, in turn, be affected by the genome of the
12 host, the host plant's developmental and physiological
13 status, and environmental pressures (Royal Society of Canada
14 2001). Consequently, regulators cannot limit their
15 evaluation of a transgenic variety's potential impacts to
16 those that might arise from the predicted phenotypic
17 characteristics conferred by the transgene chosen for
18 insertion. Instead, officials must empirically assess each
19 genetic line for the potential questionnaires of these
20 pleiotropic effects. The risk of unanticipated and unwanted
21 changes is greater in plant and animal types that have a
22 short history of human breeding.

23 In the Royal Society's view, studies at the six
24 relevant levels should be undertaken whenever there are some
25 scientific data (although incomplete, contested, or

1 preliminary) or plausible scientific hypotheses or models
2 (even though contested) that establish a reasonable prima
3 facie case for the possibility of serious harm, and there is
4 significant uncertainty.

5 These principles point to an IPPC standard that:

- 6 o encourages each country to consider the
7 potential risks and benefits of an LMO from
8 its own ecological and social perspective
9 before deciding whether to allow importation
10 and use
- 11 o allows countries to require would-be
12 importers of LMOs to conduct or pay for the
13 relevant empirical studies needed to
14 determine the types and level of risk
15 associated with the proposal to import an LMO
16 as well as the effectiveness and
17 environmental impacts of technologies
18 proposed to minimize any risks
- 19 o discourages countries from relying on studies
20 done by other countries with different crop
21 systems and ecological countries
- 22 o recognizes countries' differing abilities to
23 adopt and enforce regulations
- 24 o encourages technical and financial assistance
25 and other mechanisms to help countries

1 develop their ability to carry out -- or
2 assess independently -- the risk evaluation
3 studies.

4 The potential negative impacts that must be
5 evaluated include, but are not limited to:

- 6 1) escape of the novel genetic material into
7 other plants or animals -- including wild
8 relatives;
- 9 2) impacts of inserted pesticidal properties on
10 food webs and ecosystem processes;
- 11 3) repercussions of pests' developing resistance
12 to pesticidal properties;
- 13 4) enhanced "invasiveness" of the transgenic
14 organism or its relatives -- in natural as
15 well as managed systems;
- 16 5) impacts of other genetically induced changes,
17 such as altered lignin content, on food webs
18 and ecosystems; and
- 19 6) negative environmental impacts from
20 application of technologies intended to
21 manage the LMO -- including induced sterility
22 and increased use of herbicides.

23 Again, all potential risks need to be evaluated
24 for each line in the context of each environment which might
25 "receive" the LMO before use is approved. For example,

1 repercussions of genetic escape are far different in areas
2 that are centers of origin and diversity for the crop
3 species being modified than in areas where the plant is an
4 exotic. Similarly, the food webs and ecosystem
5 vulnerabilities will differ from country to country.

6 The IPPC standard must encourage each country to
7 do its own review, looking at these and other questions. It
8 must not encourage countries to rely on reviews carried out
9 by other countries with very different ecological
10 considerations.

11 Further, the IPPC standard must encourage
12 countries to assess realistically their ability to detect
13 and respond to unexpected or unforeseen developments. Some
14 countries will have greater resources and technical
15 capacities than others -- including variations in regulatory
16 agencies' power to ensure that importers and domestic users
17 of the LMO comply with protective management prescriptions,
18 e.g., requirements that they plant refugia to minimize
19 pests' development of resistance to inserted pesticidal
20 properties.

21 In general, American Lands believes that the IPPC
22 is not now able to develop a detailed standard for risk
23 assessments of LMOs because it lacks expertise in too many
24 areas and it must find ways to coordinate with the different
25 mandates and approaches of the Biosafety Protocol.

1 If the IPPC proceeds at this time, however, we
2 have identified above some of "the plant pest risks
3 associated with LMOs/products of modern biotechnology"
4 (point 1 from paragraph 34 of the report of the April 2001,
5 ICPM meeting). Under points 3, 4, and 5, the IPPC must
6 specifically reference the Biosafety Protocol and Convention
7 on Biological Diversity.

8 American Land hopes that the U.S. delegation to
9 the IPPC will actively support increased dialogue among the
10 secretariats and parties to both the IPPC and the CBD. One
11 of the most important steps that both organizations could
12 take is to build the capacity of developing countries to
13 respond to both invasive species and "biosecurity" issues.
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ATTACHMENT TO STATEMENT OF FAITH THOMPSON CAMPBELL, Ph.D.

American Lands appreciates that the Animal and Plant Health Inspection Service (APHIS), National Invasive Species Council and the International Working Group of the Invasive Species Advisory Committee held an open public meeting on July 24, 2001. Public input on how environmental impacts are to be incorporated into pest risk assessments is crucial for these elements to be useful, accurate, and credible. Because we were not able to attend the public meeting, we ask that you consider these comments as you prepare for the upcoming meeting of the International Plant Pest Convention's (IPPC) Working Group.

While we value this opportunity to comment, we wonder whether it is timely. The IPPC decision to develop a standard was adopted in June 2000; there is reference to the North American Plant Protection Organization (NAPPO) -- to which the U.S. is also party -- having developed its position in August 2000. The IPPC has scheduled a workshop for August. Why has APHIS waited so long to hold this meeting? The result is that we had only a few weeks to study the current proposal and comment. Furthermore, APHIS provided little information in extending the invitation. We have received, from other sources, a "Background" document -

1 - but it is unclear how widely this document has been
2 disseminated. Last year, we raised similar concerns
3 regarding tardy provision of opportunities for public
4 comment affecting development of other IPPC standards.
5 APHIS really must improve its compliance with U.S. statutes
6 requiring public comment during development of policies.

7 American Lands thinks it is entirely appropriate
8 that the National Invasive Species Council and the
9 International Working Group of the Invasive Species Advisory
10 Committee are involved. We have long felt the need for much
11 broader input into U.S. positions on international trade
12 policies that affect management of invasive species. We
13 will expect to follow these developments closely.

14 Formally, incorporating environmental risks into
15 the IPPC (and national) risk assessment process is long
16 overdue. The laxness of international standards for the
17 movement of organisms worldwide has contributed greatly to
18 the alarming numbers introductions. The addition of
19 environmental impacts to assessments of pest risk is a
20 fundamental improvement. However, we have serious concerns
21 as to whether the underlying philosophy of the IPPC's work
22 or the five specific elements will contribute to a
23 significant improvement.

24 The IPPC bodies and participating countries should
25 accept the leadership of other international bodies that

1 have considerably greater expertise in evaluating the
2 environmental impacts of exotic or alien species; the IUCN
3 Invasive Species Specialist Group, the Global Invasive
4 Species Programme, and the Subsidiary Body on Scientific,
5 Technical, and Technological Advice (SBSTTA) of the
6 Convention on Biological Diversity. We support the comments
7 submitted by Drs. Mick Clout and Maj. De Poorter of the IUCN
8 ISSG, Defenders of Wildlife, and Peter Jenkins that make
9 extensive reference to the plans and strategies adopted by
10 or under discussion by these organizations. American Lands
11 fully supports the IPPC's following the lead established by
12 these bodies -- at both broad "philosophical" level and more
13 detailed application level. The IPPC should not try to re-
14 invent the wheel.

15 The plans, guidance, and strategies adopted by the
16 IUCN, GISP, and SBSTTA/CBD are very similar -- and are based
17 on ecological realities. However, these strategies'
18 emphasis on treating every alien species as potentially
19 invasive differs substantially from the species-by-species,
20 commodity-by-commodity approach usually adopted by
21 phytosanitary agencies, including the IPPC. The IPPC should
22 focus its efforts -- both internally and in consultation
23 with the IUCN, GISP, and SBSTTA/CBD -- on resolving ways to
24 adjust the traditional approach to adopt the pathway
25 approach and broad perspective recommended by the expert

1 organizations. This adjustment presents a challenge.
2 However, it must be done to ensure that an IPPC standard is
3 effective in protecting the environment.

4 American Lands particularly endorses the warning
5 from Drs. Clout and De Poorter of the ISSG and others about
6 the difficulty and environment and other expense associated
7 with attempts to eradicate or control introduced species.
8 The IPPC must not adopt policy based on a falsely optimistic
9 premise that post-introduction control is an acceptable or
10 workable strategy. The focus must remain on prevention.

11 A detail under this provision concerns the
12 "trigger" for conducting a risk assessment of an
13 intentional introduction; we support the ISSG in
14 saying that the "trigger" must be the proposal to
15 move a species to a biogeographic region to which
16 it is not native. The risk of escape of any
17 deliberately introduced organism is sufficiently
18 great that the IPPC should not limit environmental
19 assessments to those species intended for release
20 into the environment.

21 The current "discussion draft" is much too rigid
22 regarding other aspects of the "trigger" for
23 conducting a risk assessment. Requiring potential
24 impacts on officially designated threatened or
25 endangered species sets the bar much too high. It

1 would be more appropriate to evaluate potential
2 environmental impacts in virtually all cases,
3 using the same scale -- low, medium, or high -- as
4 is applied for the appraisal of economic impacts -
5 - and applying this analysis to the full range of
6 potential environmental effects.

7 American Lands also fully concurs with the
8 recommendation by Union of Concerned Scientists that the
9 IPPC consult a broader range of scientific expertise. This
10 consultation must be continuous -- and play a role in
11 adjusting other standards, assisting in their application,
12 (re)evaluating threats from both established and newly
13 identified trade pathways, etc.

14 Because of the lack of previous consultation with
15 experts in biological invasion, and the wide
16 disparities between such experts' advice -- as
17 reflected in the plans and strategies developed by
18 the IUCN, GISP, and SBSTTA/CBD -- and the thinking
19 apparently behind the current "discussion draft,"
20 American Lands that the IPPC reject the current
21 draft and start over.

22 We join the UCA in asking how the environmental
23 evaluation will be incorporated into the overall risk
24 assessment. The standards, once adopted, must be fully
25 integrated into the Guidelines for Pest Risk Analysis (which

1 we have already noted must also be substantially amended).
2 The various elements of the environmental analysis must be
3 treated equitably with the agricultural or economic factors.

4 In addition to the challenges the IPPC will face
5 in adapting its customary practices to the fundamentally
6 different scientific consensus on managing invasive species,
7 the treaty partners must also consider how they can work
8 with others to bring about comprehensive, holistic
9 environmental reviews, as recommended by Drs. Clout and De
10 Poorter. Fragmented studies of the separate categories of
11 impacts potentially associated with one pathway is not
12 inefficient, it is likely to result in an incomplete picture
13 and important impacts "falling between the cracks." The
14 IPPC must work with the CBD, Office International des
15 Epizootics (OIE), IUCN, United Nations Environmental
16 Programme, International Maritime Organization, and other
17 players to come up with sensible guidelines. At the same
18 time, we cannot accept lengthy delay in incorporating at
19 least preliminary environmental standards into IPPC
20 guidelines.

21 Another major challenge will be encouraging
22 regional responsibility when countries contemplate allowing
23 introductions which could then spread to neighboring
24 countries -- again, as recommended by Drs. Clout and De
25 Poorter. At a minimum, the standards should encourage

1 countries to monitor pest damage in other countries, and to
2 take precautionary action when appropriate, before those
3 pests are either introduced into their own country or are
4 intercepted at the borders.

5 The IPPC standard on assessing potential
6 environmental impacts will be implemented in conjunction
7 with other IPPC standards, specifically including the
8 standard on "Pest risk analysis for quarantine pests." In
9 comments which American Lands, the Center for International
10 Environmental Law, and Defenders submitted in fall 2000, we
11 pointed out numerous flaws in that standard. The proposed
12 standard for environmental assessments attempts to overcome
13 only one of these problems: the longstanding emphasis
14 invasive species' impacts to economic commodities, such as
15 crops, to the exclusion of environmental damage. Our other
16 concerns remain. We therefore incorporate here by reference
17 our joint letter. By doing so, we hope to encourage the
18 IPPC to avoid repeating the same mistakes in the new
19 environmental standard. We seek to remind APHIS that the
20 standard on "Pest risk analysis for quarantine pests" still
21 awaits revision to bring it into conformity with scientists'
22 guidance re: preventing introductions.

23 We wish to draw particular attention to both the
24 existing and proposed standards' discussion of reasons for
25 initiating a pest risk analysis. As the IPPC has conceded,

1 the potential environmental impacts of plant pests that
2 might be introduced via a particular trade pathway have been
3 given too little attention to date. Under these
4 circumstances, many existing PRAs are inadequate -- even
5 without a change in trade patterns. Parties must be
6 encouraged to re-evaluate existing PRAs when there is any
7 indication that they might have overlooked potential
8 environmental impacts.

9 Meanwhile, we reiterate our longstanding concern
10 re: the narrow definition of "officially controlled."
11 Peter Jenkins, Esq., points out that efforts to contain or
12 mitigate the impacts of environmental pests are particularly
13 likely to fall short of meeting the definition of
14 "officially controlled." As we noted in our earlier
15 comments,

16 American agriculture and natural ecosystems are
17 already under assault by up to 4,500 exotic
18 insects and more than 200 exotic plant pathogens.
19 About one-third of the exotic insects are known to
20 have harmful effects, as do 91% of the exotic
21 pathogens (USDA APHIS and Forest Service. August
22 2000). Between 3,700 and 4,500 exotic plant
23 species are established outside cultivation in the
24 United States and its territories (Kartesz 1999;
25 USDI USGS 1998); at least 500 of these plant

1 species are already document to be invasive in
2 natural systems.

3 If the IPPC standards do not allow countries to
4 apply phytosanitary measures at their borders to these
5 established pests and weeds, the standards will fail to
6 provide a meaningful measure of protection to either
7 environmental or economic resources.

8 Finally, introductions and international movement
9 of genetically engineered or modified organisms also carry
10 the potential to cause environmental impacts. The IPPC is
11 also developing a standard on this matter. The IPPC must
12 ensure that the "environmental" and "GMO" standards are
13 mutually compatible, particularly that the latter affords
14 protection to the environment. In developing the "GMO"
15 standard, the IPPC must consult with the CBD, the parties to
16 which have already adopted the Biosecurity Protocol that
17 addresses specifically this issue.

18 Thank you for this opportunity to comment on the
19 proposed drafting of an environmental standard by the IPPC.
20 We look forward to working with you and others to ensure
21 that the standard is effective.

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MODERATOR'S STATEMENT

Good morning. Welcome to the Animal and Plant Health Inspection Service. This is a public meeting to discuss the recommendation for the development of a standard concerning the plant-pest risks associated with living modified organisms (or LMOs) under the International Plant Protection Convention. The International Plant Protection Convention (or IPPC) is recognized as the international, standard-setting body for international plant-pest issues by the World Trade Organization.

My name is Anissa Craghead, and I've been asked by the deputy administrator for Plant Protection and Quarantine to be the moderator for today's meeting. The panelists for today's meeting are Dr. Cathy Enright, to my right, Director of Biotechnology Issues and Phytosanitary Issues Management, Plant Protection, and Quarantine. Cathy is the person responsible for coordinating the federal government process for addressing LMOs under IPPC.

Joining Cathy is Mr. Nancy Klag, Program Director for International Standards Development and Issues under the North American Plant Protection Organization. Nancy coordinates the development of U.S. Government positions for a range of IPPC issues and is here to answer questions

1 related to IPPC in general.

2 The purpose of today's meeting is to provide you
3 with background on the issue of LMOs as they pertain to IPPC
4 and to give interested persons an opportunity to present
5 their views on the recommendation for the development of an
6 IPPC standard concerning the plant-pest risks associated
7 with LMOs. Notice of today's meeting was published in the
8 Federal Register on July 27, 2001 (see 66 FR page 39136).

9 The format for today's meeting will be as follows:
10 After I complete my remarks on the procedural aspects of the
11 meeting, Dr. Enright will provide you with background
12 information on the issue of LMOs under IPPC and update you
13 on what's happened on this topic since our last public
14 meeting on this issue, which was on March 8th.

15 After Dr. Enright's presentation, persons who have
16 registered to speak will be given an opportunity to speak in
17 the order that they registered. After each speaker
18 completes his or her remarks, panelists will have the
19 opportunity to provide clarification or additional
20 background information if needed and appropriate to the
21 topic of this meeting. If time permits, persons who have
22 not registered will be given an opportunity to speak once
23 all registered persons have been heard.

24 Today's meeting is scheduled to end at noon.
25 Should registered speakers' presentations take us over the

1 noon conclusion time, we will remain longer to accommodate
2 their statements. Alternatively, we may conclude before
3 noon if all persons who have registered to speak have been
4 heard, and there are no other persons who wish to speak.

5 Four people are registered to speak at today's
6 meeting. Does anyone joining us by phone wish to give a
7 prepared statement?

8 All comments made here today are being recorded
9 and will be transcribed. The court reporter for today's
10 hearing is Wallace Farmer, who is associated with Heritage
11 Reporting Corporation in Washington, D.C. Detailed
12 information on obtaining a copy of the transcript for
13 today's meeting is available at the registration table.

14 I will call each person who has registered to
15 speak. Before beginning, please come and sit in that chair,
16 pick up that microphone, state and spell your first and last
17 name for the court reporter. Especially for those on the
18 phone, please be sure to say who you are affiliated with.
19 In addition, please say who you represent. If you read a
20 prepared statement and have an extra copy with you, please
21 give me that extra copy at either the beginning or end of
22 your remarks. Any oral statement presented or written
23 statement submitted at today's meeting will become part of
24 the public record.

25 If a speaker's comments do not relate to the

1 stated purpose of today's meeting, which is to present
2 comments or questions on the recommendation for an IPPC
3 standard concerning the plant-pest risks associated with
4 LMOs, I will ask the speaker to focus his or her comments
5 accordingly. In addition, I expect everyone to show respect
6 to speakers and give speakers your full attention.

7 Please sign the attendance sheet, which is also
8 located on the registration table, before you leave today.
9 After Dr. Enright's presentation I will call the first
10 registered speaker. Cathy.

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CERTIFICATE OF REPORTER, TRANSCRIBER AND PROOFREADER

APHIS Public Meeting Development of LMO Standard
Name of Hearing or Event

01-061-1
Docket No.

Riverdale MD
Place of Hearing

August 23, 2001
Date of Hearing

We, the undersigned, do hereby certify that the foregoing pages, numbers 1 through 99, inclusive, constitute the true, accurate and complete transcript prepared from the tapes and notes prepared and reported by Wallace Farmer, who was in attendance at the above identified hearing, in accordance with the applicable provisions of the current USDA contract, and have verified the accuracy of the transcript (1) by preparing the typewritten transcript from the reporting or recording accomplished at the hearing and (2) by comparing the final proofed typewritten transcript against the recording tapes and/or notes accomplished at the hearing.

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