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**BOARD FOR INTERNATIONAL
FOOD & AGRICULTURE DEVELOPMENT
(BIFAD)**

Meeting held on the 29th day of July, 2009

at 8:15 a.m.

National Press Club
529 14th St. N.W., 13th Floor
Washington, D.C.

TRANSCRIPT OF PROCEEDINGS

BEFORE

ROBERT EASTER, CHAIRMAN

BOARD MEMBERS PRESENT:

ROBERT A. EASTER, CHAIRMAN

WILLIAM B. DELAUDER

H.H. BARLOW

CATHERINE A. BERTINI

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P R O C E E D I N G S

July 29, 2009

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3 THE CHAIRMAN: Good morning again. We have a
4 full agenda today, and it's going to take every minute.
5 And I have a 6:00 flight, and I'm going to be on that
6 flight so we're going to finish in time for me to get to
7 the airport. My name is Bob Easter, and I have the
8 privilege of chairing the BIFAD, the Board on
9 International Food and Agriculture Development. This
10 is the 157th meeting of the Board since its inception
11 back in the 1970s, and we have, as I said earlier, a
12 very full agenda. And the mandate of the BIFAD is to,
13 if you will, be in that space between USAID and the
14 university community that's defined under Title 12 of
15 the Foreign Assistance Act, and our role is to seek to
16 bring to the table the capacity of universities to
17 contribute to the international development agenda of
18 this nation as it relates to food and agriculture. The
19 last couple of years, beginning a year ago, and then
20 back in May of this year, the Board has convened a
21 meeting of a Council of Deans. We invited purposefully
22 deans from universities across the country or their
23 representatives who have engaged or have an interest in
24 being engaged in professional agricultural development,
25 and out of that last year produced a white paper that we

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1 were very pleased with in terms of recommendations and
2 engaged in some legs, if you will, and moving the
3 conversation forward. And we convened under Council of
4 Deans that was attended by about 75 just recently, and
5 the first part of our program this morning we're going
6 to look at the perspectives from that Council of Deans,
7 and I'll introduce the person who's going to do that in
8 a moment. And then our second speaker is Karen Turner,
9 who I think is well known by most of the folks in the
10 audience who has become a real partner with the BIFAD,
11 who is director of the Office of Development Partners,
12 in developing the, if you will, underpinning by which we
13 in the university community can contribute to the
14 mission of USAID. Then we'll turn later in the morning
15 to an update on the legislation that I'm sure all of you
16 are aware of that's on the hill related to food
17 security, both in the House and in the Senate, and we'll
18 have an opportunity just after that for public comment.
19 And I think in the announcement for the meeting or the
20 call for a meeting, we indicated there would be time for
21 public comment, and you should have indicated to Dr.
22 Senykoff, our executive director, that you wanted to do
23 that. Then we'll take a break and turn our attention
24 Afghanistan. I have a couple of speakers well qualified
25 to deal with that topic. And if you have the agenda in

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1 front of you, and if you read the Wall Street Journal
2 this morning, you'll notice that USAID is right on top
3 of it. There's a headline in the journal that says the
4 government discovers that paper has two sides and
5 talking about the savings by printing on both sides, so,
6 Karen, congratulations, or, Rod, you've used both sides
7 of the page and saved a piece of paper and one less tree
8 in the forest that had to come down. After lunch, we'll
9 come back together, talk about agro-ecological
10 approaches, the challenge of sustaining the system, if
11 you will. As we thought about food and agriculture,
12 it's always important to think in the near term, but we
13 have also thought it important for us to begin to think
14 in terms of a longer term perspective, 2030 as a goal.
15 We're going to spend a bit of time on Latin America
16 later in the afternoon. I think for good reason the
17 Board has given a lot of its attention in recent
18 meetings to Africa and food needs on that continent, and
19 that's important that we continue to do that but it's
20 also important that we also look at perspectives from
21 other areas of the world. We'll wrap up today with
22 issues around operational management. Let me just
23 briefly introduce our Board members to those that are
24 attending perhaps for the first time. Catherine Bertini
25 is sitting here, and she has had a number of roles

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1 currently at Syracuse University in the Maxwell school,
2 and previous to that was at United Nations. And among
3 other things, I think her last assignment had to do with
4 administrative services and all of those knotty things,
5 prior to that director of the World Food Program. Dr.
6 Bill DeLauder, toward the center, President Emeritus of
7 Delaware State University, and an intellectual. And,
8 Bill, I'm just going to tip my hat to you, who these
9 days is often on the platform speaking about the role of
10 land grant universities, the role of public universities
11 in the nation's educational and research community. I
12 appreciate every time I have the opportunity to listen
13 to Bill speak. Dr. Elsa Murano is a relatively new
14 member of our Board from Texas A&M, currently a faculty
15 member in food science human nutrition. I'm sorry,
16 that's not right. Food science. Is human nutrition
17 part of that too? Yeah. I thought maybe that was
18 unique. And previously served as president of that
19 institution. The statute, the language that creates the
20 Board is a presidentially appointed Board, requires that
21 there be some citizen membership outside the university
22 community, and H. Barlow from Kentucky, a dairyman, a
23 leader in Kentucky agriculture, fills that role. And of
24 course Kerry Bolognese at the end, APLU, Association of
25 Public and Land Grant Universities. That's starting to

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1 just roll off much easier than it did early on, NASULGC.
2 APLU has a contract to provide logistical support
3 services to the BIFAD. And Dr. Ron Senykoff is in the
4 back of the room, our executive director. And with him
5 now, John Becker, who was long service with USAID as a
6 foreign service officer and now is in a role in support
7 of BIFAD. So with those comments, I would like to
8 introduce our first speaker, who, quite frankly, doesn't
9 need an introduction. Deborah, I lost you. Where's
10 Deborah? Here you are. Deborah Rubin is a senior
11 social development analyst, and she is the owner and
12 director of Cultural Practice, LLC. It's a woman-owned
13 small business that provides consulting service for
14 international development, and the BIFAD has regularly
15 called upon her to help us think through issues and to
16 prepare reports. And she worked extensively with both
17 Council of Deans I and Council of Deans II, and is here
18 this morning to give us some thoughts on what we heard
19 the deans and the group saying at Council of Deans II.
20 Deborah. Dr. Rubin.

21 MS. RUBIN: Thank you, Mr. Chairman, members
22 of the Board, and members in the audience, some of whom
23 I believe were at the Conference of Deans II. I have to
24 say in my introduction, very nice introduction, you may
25 have noticed that I'm not a dean of a college of

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1 agriculture, but I have been asked to provide some
2 framing of the time that was spent on June 30 of this
3 year by the deans of schools of agriculture to come up
4 with a set of recommendations and thoughts for the
5 future of agriculture under the U.S. government. The
6 title Building of Global Food Security Strategy reflects
7 really the new emphasis that has come about in the last
8 year since the first Council of Deans meeting, which was
9 held in April of 2008. At that meeting the group
10 established the rationale for re-engaging with the
11 university community on these questions of agriculture
12 and in that year since last April or a year and a few
13 months there have been a number of things that have been
14 going on in the world which really relate to creating
15 the context that we're in now. The food crisis had
16 started back in December of 2007 or so and it really
17 started to take off, the financial crisis in September
18 of 2008, and that combined with a renewed focus by the
19 U.S. government on agricultural and food security with
20 enormous new funds becoming available. So the question
21 is if we've established the rationale for why U.S.
22 universities are an appropriate partner in this process,
23 what are we going to do next? What is going to be the
24 approach? What is the how for this work of the
25 universities in conjunction with the U.S. government?

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1 And that was really the theme behind the Conference of
2 Deans II. We know what the global challenges are.
3 They've been presented to us in a number of ways. At
4 the conference they were presented largely by Mark
5 Rosegrant [ph], Franklin Moore, and Josette Lewis, Mark
6 of IFPRE [ph] and Franklin Moore and Josette Lewis of
7 USAID, establishing that we're in a position of
8 continued food price crisis, financial crisis. The
9 world is seeing rising numbers of hungry, poor and
10 malnourished, and especially concern over conditions of
11 climate and water variability. So, as I said, that has
12 led to a renewed establishment of interest in ag and
13 food security issues, and both Mark Rosengrant and the
14 AID speakers laid out several areas in which this focus
15 was going to be directed, one of them being increased
16 investment in agriculture and rural development, as well
17 as investment in some of the supporting services for
18 social services, for education, and for rural
19 infrastructure. A second area that was particularly
20 important was refining the science and technology
21 policies to make sure that the work that was going to be
22 going on would be laid out within an appropriate policy
23 framework. And, third, and perhaps most important for
24 the university community was the idea of increasing
25 support to various agriculture and natural resource

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1 management sciences, all of this coming after, as you
2 well know, years of neglect and declining investment in
3 these areas. Now this next slide is already out of date
4 even though I prepared it yesterday, the context
5 changing so rapidly within the U.S. government, but
6 these points are going to be developed by other speakers
7 later today and this afternoon. It's important simply
8 to recognize that there has been an international
9 commitment to more money, that there is a whole
10 government approach to looking on priorities for
11 agricultural investment, and that there is some thinking
12 under the name of HECTARE for a new way for universities
13 and the government to interact on these questions. Now
14 the conference's purpose has two different elements, and
15 in some ways they were quite distinct and they tried to
16 encompass both within a single day, which led to a lot
17 of very enthusiastic discussion but really not enough
18 time to come to some final declarations. The first was
19 to lay out a road map, what is it that should be done to
20 partner between the U.S. university community and USAID
21 to implement the food security. And the second was
22 really an opportunity to think about what a new program
23 to do that would look like. In the work carried out
24 under the first dean's conference, as I said, the
25 rationale for U.S. university involvement was laid out,

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1 and these are some of the characteristics that were
2 identified as the important ways that the U.S.
3 universities can contribute. Now all of these reasons
4 in some sense could be considered a kind of supply
5 response. These are things that we know that the
6 universities do very well and so very often in terms of
7 making contributions. What's important for the work of
8 the dean's conference is to be able to combine that with
9 the market-driven response to say -- so that USAID is
10 able to say what is it that they need and that there can
11 be some synergy between these contributions and the
12 development imperative, and the question is how to best
13 harness that joint movement forward. I've taken from
14 the very many recommendations that were presented at the
15 dean's conference, which have been summarized by
16 Encompass Limited, who led the facilitation of that
17 conference in a great report, which I think is going to
18 be available on the NASULGC web site -- sorry, APLU web
19 site. And it's worth all of you taking a look at that
20 to really see the richness and robustness of the work
21 that was accomplished, but I've laid out four different
22 areas from what they had presented. The four of them
23 are first to reinvigorate U.S. intellectual leadership.
24 The second, to forge creative, strategic and sustainable
25 partnerships. The third, to engage the next generation.

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1 And the fourth to reintegrate teaching, research and
2 action. So those are the four general themes. Each of
3 the next five slides simply list some of the key points
4 that came out under those themes at the conference. I
5 know that copies of the slides are available. I don't
6 want to take your time to read through each of these.
7 But the most important point under the reinvigorating
8 U.S. intellectual leadership is not that the university
9 communities do not have that leadership. It's how to
10 harness that, how to mobilize that, so that the right
11 people are speaking to the right people on the
12 government side to really be able to set the priorities
13 and to make the decisions. Some of the issues that came
14 out were the way in which work in agriculture now
15 represents systems thinking. Interdisciplinary was
16 mentioned many times, and the need to really conduct
17 research on targeted problems, the adaptation and
18 mitigation of climate change issues certainly, but there
19 are also a lot of other areas that were mentioned. The
20 second point about forging creative strategic and
21 sustainable partnerships was discussed at a number of
22 different levels so that it's not simply a partnership
23 between the university and government but also across
24 government that is being encouraged in the whole of
25 government approach, and also among all of the other

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1 parts of civil society, the foundations, the private
2 sector, as well as government and higher education. And
3 then there was a lot of discussion about linking U.S.
4 and developing country institutions at all of these
5 different levels. But for the first time, I think the
6 focus was also on real country led programs so that at
7 all of these levels and across all of these levels the
8 emphasis was not simply in the U.S. but looking at them
9 in the host countries as well and building the capacity
10 in the host countries to take charge of the direction
11 that they want in agricultural development. Another
12 point that was mentioned was the importance of using all
13 of the different acquisition and assistance mechanisms
14 that were available so that not only the grants and the
15 cooperative agreements that have been in place most
16 recently but also returning to a use of contracts with
17 the universities as another alternative. It was really
18 important in the discussion to find ways to engage the
19 next generation. There was a lot of concern about the
20 lack of interest among the next generation of going into
21 agricultural sciences both in the U.S. side as well as
22 in developing countries. The idea that agriculture just
23 doesn't seem to be the kind of money maker and exciting
24 profession that perhaps working in health or working in
25 computers seems to be, and how can that be

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1 reinvigorated. The idea of mobilizing the university
2 networks that exist that have been the product of a lot
3 of aid investment in the past and also trying to build
4 new programs that integrate across universities and with
5 developing countries, the foreign study abroad, the
6 international student learnings, service learning, and
7 foreign students so that you get synergies among these
8 different programs to move forward. And finally the
9 last of the four areas that I mentioned, the point about
10 reintegrating teaching research and action. We know
11 that the land grant model involves these three areas,
12 and that was seen as a very useful model for thinking
13 about future activities, but in itself is still limited
14 without the partnerships that we discussed before
15 bringing in the private sector, foundations, and other
16 civil service groups. The idea of developing more
17 exchange, more dialogue between the universities and the
18 officers of government, there have been various exchange
19 programs that have worked, been successful, and the hope
20 is that additional resources can be put into developing
21 these exchanges in the future. There is also discussion
22 about the need for new kinds of institutions that would
23 be able to create this integration of these three areas
24 in innovative ways. One of the most interesting
25 discussions was about establishing centers of excellence

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1 and a national food security university. I believe
2 we're going to be hearing a bit more about that as well
3 later this afternoon. So trying to pull all of this
4 together in a way that will make it possible for BIFAD
5 to speak to this issue of U.S. university relationships
6 with the government the following goal has been laid
7 out. This is not necessarily the perfect wording, I
8 will admit, but there are three elements that I think
9 are important that have been tried to be captured here.
10 The first is this point about increasing investments in
11 agricultural science and technology that was brought out
12 so forcefully both by Mark Rosegrant in his presentation
13 and the models that he provided, as well as from U.S.
14 universities -- I'm sorry, from USAID in their talking
15 about their goals. But the second is that the science
16 and technology needs the agricultural education system.
17 There needs to be support for that as well. The support
18 is not for its own sake. The purpose has to be the
19 creation of this safe, secure, and sustainable food
20 supply, so while each of them are important goals in
21 their own right the idea here is that it is targeted
22 towards a specific purpose, and the date of 2030 is
23 there to make sure that BIFAD is able to support not
24 only the short-term vision but also the longer term
25 vision and to establish ways to sustain that. And if

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1 you remember at the beginning of the presentation, I
2 mentioned that there were two different purposes for the
3 conference. I've tried here to outline just one goal
4 for each of those, that the road map can be designed by
5 the use of some mechanism such as a brain trust, a way
6 to really get the right people, as I said, to speak to
7 the right people. It has to be a two-way process. At
8 the risk of redundancy, I will say joint dialogue, which
9 was a phrase that was used in the conference. Too often
10 I think what we have are simply one way discussions,
11 either the universities talking to USAID, USAID talking
12 to the universities, and there's an opportunity here to
13 find the right mechanism perhaps through the brain trust
14 to create the kind of dialogue that can really reinforce
15 new learning for these new directions. And in terms of
16 the new programs, there are efforts under the U.S.
17 government now, the Lugar-Casey bill and the McCollum
18 bill, to rethink the Title 12 activities and the BIFAD
19 under this name of HECTARE, the program. But hopefully
20 the purpose would be to use these mechanisms to bring in
21 the new students and to create sustainable solutions to
22 the problems that we're seeing. So that's a very brief
23 summary of a very long day with many ideas. Hopefully
24 giving you some ideas of how we might move forward, I
25 would certainly appreciate feedback from those of you

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1 who are there or those of you who are just listening
2 after you've had a chance to read the minutes and the
3 reviews by the Encompass group. As the goal for me the
4 next step is to write this up as a paper using this
5 presentation as an outline so it would be very helpful
6 to get feedback from you all on that. Thank you very
7 much.

8 THE CHAIRMAN: Before we open up for comments
9 from the Board, I should acknowledge Ray Miller who was
10 co-chair of this activity. Ray is known to many of you.
11 He couldn't be with us today. He's in association with
12 the University of Maryland but he's back home in Idaho,
13 I believe. Comments from the Board or questions. Yeah,
14 Dr. DeLauder.

15 MR. DELAUDER: Just a couple of comments. I
16 know in the slide where you said higher education
17 contribution. I know that came from, I guess, the dean
18 meeting, but it seemed as though the whole issue of
19 human resource development because we had a lot of
20 discussion and you talk about that later in the slide,
21 and that is the institutions prepare more of our young
22 people for careers in agriculture because USAID, for
23 example, has a great need for more trained people. So
24 perhaps that also should be included as part of higher
25 education contribution. I know we focused on

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1 development but that part of it is important too. The
2 second comment is when you were talking about engage the
3 next generation and you talked about improving the
4 synergy between study abroad, international service
5 learning, and so forth. Let me say that in the broadest
6 definition of study abroad, it encompasses all of those
7 things. They're not separate. The only thing we say in
8 study abroad is that it must be an experience that
9 occurs outside of the United States and that it must be
10 of a quality that it can receive academic credit which
11 can then be transferred back to an institution and can
12 count toward their credits toward graduation. So it
13 could be an academic course of study. It could be
14 research. It could be an internship. It can be any of
15 those things as long as it's quality enough that you can
16 give academic credit to them. So I don't want to give
17 the impression that we're talking about different --
18 maybe study abroad is not the best term but the broadest
19 definition, that's what the definition encompasses.

20 MS. BERTINI: Thanks. Deborah's excellent
21 presentation was an excellent synopsis of what was
22 discussed. I think one of the most important things she
23 said was when she was talking about focusing on
24 strategic, creative, and sustainable partnerships that
25 she said we need to find out what people in the

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1 individual developing countries need. And that's, I
2 think absolutely critical to any success that we might
3 have. We can't -- especially with more interest from
4 the Hill and from the Administration on doing more of
5 this, and it's critically important, I don't think we
6 can just show up and say, here, I'm here from University
7 X, Y, Z, and I'm here to help you. We have to make the
8 pull come from the developing countries and the
9 universities or the scientific institutions or whomever
10 that we seek to help. So as we flush out what this
11 means, I hope that that becomes part of it too.

12 MS. MURANO: I just wanted to get -- Deb,
13 thank you for that presentation. Speak a little bit
14 more, if you would, on these centers of excellence and
15 certainly the concept of this food security
16 universities. Was there a particular model that the
17 deans were looking to emulate? Speak a little bit more
18 about these two concepts, if you would.

19 MS. RUBIN: There were several different
20 models that were discussed. In the afternoon there was
21 an opportunity for the deans to get together in breakout
22 groups and design programs, and so I think there were
23 perhaps eight different groups and maybe half of those
24 designed, briefly designed, activities that one could
25 call either a center of excellence or the national food

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1 security university. So I wouldn't want to say that
2 there was a single model. There has been floating
3 around both at the Conference of Deans meeting as well
4 as in other areas an idea of having a national food
5 security university which could operate somewhat
6 similarly to the National War College model where you
7 bring people in for a limited amount of time. They have
8 an opportunity to work with each other. Also, in the
9 presentation I thought I had a line about food security
10 as national security, that being the over arching theme,
11 so that you get an integrated approach to looking at
12 food security in terms of national security where it
13 might draw buy-in from the Department of Defense as well
14 as higher education, as well as the development and
15 diplomacy community. So given that they had a very
16 short time to discuss this, I wouldn't say that there
17 was any one specific model but the descriptions of the
18 various ideas are presented in the larger summary and
19 will be laid out in the paper.

20 THE CHAIRMAN: I must say I'm captivated by
21 this notion of a national food security university in
22 part because of the role that it can play in faculty
23 development. I could see as a university administrator
24 approving faculty sabbaticals to spend six months to a
25 year there working on a project related to name the

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1 country or name the issue of food-related issue, and I
2 think the potential for that to have a role in building
3 a cadre within faculties, a very well-informed faculty
4 who can go back and provide leadership not only within
5 their own university community but also to engage in
6 conversations and projects with USAID would be very,
7 very important.

8 MS. BERTINI: Just one more component. I
9 don't know if it's in the plan or not, but I hope that
10 we're thinking about, and that's the language capability
11 of the faculty or scientists who would be working with
12 countries if we limit ourselves to English, if we limit
13 ourselves to countries also.

14 MS. RUBIN: I think that's one of the
15 underlying points of informing the study abroad program
16 to ensure that that is developed starting at the
17 undergraduate level.

18 THE CHAIRMAN: I think most of us have put a
19 lot -- and universities have put a great deal of
20 emphasis in recent years on study abroad, and there's
21 been encouragement nationally to do that as well with
22 funding. I think the opportunity is for us to think of
23 how USAID has the -- would engage in those conversations
24 and perhaps even provide opportunities for internships
25 for students who are going into study abroad settings.

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1 Anything else for Dr. Rubin? Deborah, thanks very much
2 for a good presentation. And next I'm delighted to once
3 again invite Karen Turner to come to our podium. I
4 think as you're aware, Karen came on board more than a
5 year ago, I think, now as director of the Office of
6 Development Partners, and has been a very serious
7 partner over the last several months in engaging in the
8 conversation about university involvement in
9 international food and agricultural development. Last
10 year at the annual meeting of what was then NASULGC she
11 had an opportunity to speak with the deans of
12 agriculture, and I have to say you were well received,
13 Karen, and I think it should have indicated to you the
14 enthusiasm that body has for being partners here. So if
15 you would please come forward.

16 MS. TURNER: First of all, let me thank Dr.
17 Easter for his introduction, as well as his continued
18 leadership of this really joint effort to energize and
19 revive the partnership between USAID and BIFAD and the
20 U.S. university community. I'd also like to thank
21 Deborah for that excellent summary and particularly to
22 Ron Senykoff and John Becker for all of their efforts
23 behind this meeting. Also, I'm going to apologize in
24 advance that I'm going to speak and run because I also
25 have to make a flight, and I'm off to Brazil so I have

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1 to gather myself together and get out of here, so I
2 regret that I won't be able to stay for the rest of the
3 meeting. Let me just say that we felt that the second
4 Conference of Deans meeting was really very successful
5 in providing an opportunity for USAID to update the
6 deans on the plans for the U.S. government's food
7 security program, and then to follow on with the
8 discussion that you saw the results of that where there
9 was really a very vibrant discussion of future action
10 and directions, and so what I would like to do is really
11 take an opportunity to briefly talk to you about the
12 plans for the U.S. food security strategy, which is
13 referred to as seeking a world without hunger, and then
14 to talk again briefly about the way forward. I will
15 note that the U.S. government's food security strategy
16 is not yet public but the broad outlines of that have
17 been widely discussed with stakeholders, and so I will
18 reference those items. First of all, this strategy
19 seeing the work without hunger will emphasize market-
20 driven agriculture, improve coordination between food
21 aid and development aid focusing on nutrition, better
22 nutrition for children at risk, support for country-
23 managed safety net programs, focusing on countries that
24 have made the hard policy and budget choices to support
25 agriculture, improving U.S. government strategic

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1 coordination by employing a whole of government approach
2 to agriculture development programming, expanding our
3 participation in multi-lateral programs through
4 financial support, holding ourselves and our partners
5 publicly accountable for performance, and finally
6 increasing the level of our funding commitment to food
7 security to \$3.5 billion over the next three fiscal
8 years, and that is fiscal years 2010 through 2012. Now
9 many of these themes that I just referenced are very
10 familiar to BIBAD because they were the subject -- not
11 the subject but they were discussed in the white paper
12 that resulted in the first Conference of Deans that was
13 held last year and mentioned in Deborah's comments.
14 This new U.S. government strategy that I mentioned is in
15 its final review and we hope that it will be available
16 soon, and when it is available, Ron Senykoff or John
17 Becker will arrange for it to be distributed as soon as
18 it is available. Now let me talk a little bit about
19 where we hope to go and also just a few comments about
20 the second Conference of Deans. The Conference of Deans
21 recommended an overall goal that has a longer time line
22 food security in 2030 than is covered by the U.S.
23 government strategy. Obviously, this is very sensible
24 because the challenges that we face of increased
25 population in developing countries, higher global energy

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1 cost, increased water shortages and higher temperatures
2 as a result of global climate change clearly are
3 challenges that demand longer term action and solutions.
4 The long-term perspective reflected in the Conference of
5 Deans and the shorter term perspective that is reflected
6 in the U.S. government strategy clearly can be
7 harmonized because the short term -- the short and
8 medium term are an integral component of the longer term
9 vision, but what it means is that the efforts at
10 coordination, collaboration, and developing a shared
11 understanding and a shared voice outward to the public
12 and importantly to the Hill, which is also trying to
13 support the development, the re-establishment of the
14 U.S. role in agricultural development will be very
15 critical. What will also be very critical is that BIFAD
16 and the U.S. university community will need to be very
17 clear as to the investment cost and the rates of return
18 to build human and institutional capacity for science
19 and technology so that the plans the programs for the
20 longer term are able to compete effectively for
21 resources with those activities that will be addressing
22 the shorter and medium term needs. The way forward
23 involves growing the partnership that we have been
24 developing between USAID and the U.S. university
25 community, the brain trust idea to increase the

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1 technical depth of our new food security efforts. And
2 as we actually mentioned at the Conference of Deans,
3 this in part means that we need to ensure that the U.S.
4 university community energizes the flow of students and
5 professors in the areas of agricultural development in
6 which we expect to focus. What we learned is that USAID
7 has actually been trying to recruit students for our new
8 entry level program through the development leadership
9 initiative where we're bringing in about 1,000 foreign
10 service officers over three fiscal years, and one of the
11 hardest areas that we were having challenges in
12 recruiting in was in the agricultural area where we're
13 woefully thin in terms of technical depth. It also
14 means that we should creatively explore three-way
15 partnerships involving high quality, higher education
16 institutions in other countries. For example, Brazil,
17 the country to which I'm headed later today, that have
18 complimentary expertise in the areas of planned
19 assistance. Obviously, there are many other ways
20 forward but what is important is that we all recognize
21 the importance of a high and a higher level of
22 scientific integrity to the programming that we're
23 trying to put in place for agriculture development. If
24 you look at the legislation that's coming forward, there
25 is a significant current congressional interest in

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1 improving monitoring and evaluation of development
2 activities generally, and we can certainly expect that
3 with the significant increase in funding for agriculture
4 development that what will come with that is increased
5 accountability demands. That means that BIFAD and
6 SPARE, which is a part of BIFAD needs to be closely
7 involved in defining informative performance metrics
8 that enable us to demonstrate and explain in very clear
9 terms what is being accomplished with the significant
10 resources that are being mobilized. The second
11 Conference of Deans, as indicated in Deborah's comments,
12 surface several ideas for new programs. Now not all the
13 programs will be able to be pursued and we may not even
14 all agree as to the merits of all them, all of the
15 ideas, but I really don't think that's the key things
16 that we should worry about. I think what's important is
17 that what you saw in the Conference of Deans is very
18 concrete evidence that USAID and the U.S. university
19 community are coming together once again to chart a way
20 forward, a shared way forward, a focused problem-solving
21 manner which I think is very important, and I believe
22 that we've made incredible progress in rebuilding that
23 partnership, and I really would like to give my thanks
24 to Dr. Easter who has provided leadership in that, and
25 to the Board which has been very involved in that as

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1 well. And I look forward to continuing to work with
2 BIFAD and my colleagues in USAID not only in the Office
3 of Development Partners but in other parts of USAID to
4 integrate the U.S. university community and to this
5 global effort to improve food security. Thank you.

6 THE CHAIRMAN: Thank you very much, Karen. I
7 think as we've had very preliminary discussions about
8 our next steps as a Board, the challenge of creating the
9 mind map or road map of steps forward seems to be
10 something that has to be given priority. And at the
11 moment the thought would be that we would bring together
12 perhaps a dozen or something fewer than that thought
13 leaders to develop some themes that could be discussed
14 with the agency. And I'll say this up front, and it's
15 self-serving, we're strapped at the moment. Our
16 resources are rather limited, and so we will do the best
17 we can within the capacities that we have with staff to
18 move this forward. Other comments? Yes.

19 MS. BERTINI: Yes. I wonder if, Karen, either
20 now or in the near future at some point you could
21 communicate with us, AID could communicate with us and
22 the broader communities what kinds of staff you'd be
23 looking to hire and with what kinds of expertise because
24 we can all use that to go back to our own constituencies
25 and say, you know, over the next few years here are some

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1 of the plans that AID has and it may be very useful for
2 our institutions to help to be able to promote some of
3 the kinds of issues or expertise you're going to be
4 looking for. And to the extent as it relates to
5 agriculture that USDA or anybody else in the government
6 is looking for agriculture specialists could be
7 included, that would be even more helpful. Thank you.

8 THE CHAIRMAN: Other comments? I might just
9 say that this issue of human capacity within the U.S. is
10 a growing concern not only with USAID but it's also
11 being brought to deans of agriculture regularly from the
12 private sector. There are key areas, particularly in
13 areas like agronomy that there are just very, very few
14 students enrolled in these programs across the country.
15 And the challenge is to re-energize student interest and
16 it reflects, as many would say, in overall decline in
17 interest in science per se, but it also, I think,
18 reflects an unawareness among many of our urban students
19 of the opportunities that really are there in the food
20 and agricultural system. Any other questions or
21 comments from the Board? Again, thanks very much for
22 coming and best wishes for a successful trip to Brazil.
23 I know this is an up and back or down and back, so I
24 appreciate the challenge that you have ahead of you.
25 We're about ten minutes ahead of schedule, and I

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1 appreciate that. That says that our speakers are
2 efficient and we're moving forward. Let me suggest we
3 just take a brief break and reconvene. I'm anxious not
4 to get too far away from the announced schedule because
5 some of our speakers are working on very tight agendas
6 and may not be here until just before they're scheduled
7 to speak. So we'll reassemble about 15 after.

8 ***

9 [Off the record]

10 [On the record]

11 ***

12 THE CHAIRMAN: We'll bring our first speaker
13 to the platform, and as we turn our attention to
14 partnership, and that's very much the theme of the
15 program today is partners that are involved in
16 developing food and agricultural systems, and the next
17 section of our program is titled Partners in
18 Development, Business, Cooperatives and NGO
19 Perspectives. And we have three very well-qualified
20 speakers to spend time with us this morning, and our
21 first speaker comes to us from the Monsanto Company, and
22 as you well know, Monsanto is a global firm involved in
23 developing seed materials to address various needs and
24 food production. And Elizabeth Vancil is Program
25 Manager for International Partnerships at Monsanto.

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1 She's been in that role now for a couple of years, and
2 prior to that she was with the Donald Danforth Plant
3 Sciences Center. Those of us in the Midwest are very
4 familiar with this relatively new institution on our
5 landscape but located in St. Louis. It's a center for
6 some very high quality science around the genetic
7 improvement of plant material. And while at that
8 institute, she was focused on an international mission
9 which is part of that institute's overall mission to
10 improve health and nutrition in agriculture developing
11 countries. And in her current role she works on the
12 development of partnerships to improve the lives of
13 small farmers, small holder farmers in developing
14 countries, and managing Monsanto's technology and
15 initiatives for non-core crops. So, Elizabeth, you're
16 with me. Thank you.

17 MS. VANCIL: Good morning. Thank
18 you for coming today and for taking the time to learn a
19 little bit more about Monsanto and our partnerships to
20 improve the lives of small holder farmers in developing
21 countries. I think we're at a very exciting time right
22 now where more and more people are understanding the
23 value of agriculture, and I think we have an opportunity
24 to continue to raise awareness of the role of
25 agriculture to improve lives and also to develop new

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1 partnerships and new programs to do that. So as a
2 leading agricultural company Monsanto feels -- we feel
3 that we have a pretty unique role to play in doing that.
4 Some of you may know Monsanto as a company that's
5 produced everything from pharmaceuticals to carpet to
6 other various products, and I grew up in St. Louis so I
7 knew that history, and I had seen a lot of those
8 different products coming through the pipeline, but
9 right now we are a company that's exclusively focused on
10 agriculture so we succeed only when farmers succeed, and
11 that's farmers globally. We're primarily a technology
12 company with two research and development engines, one
13 for breeding and biotech, and we use those engines to
14 build cutting edge technologies into seed, specifically
15 into corn, cotton, soybean and vegetable seeds. And we
16 just recently launched -- well, we recently announced
17 that we are planning to get back into wheat, so
18 hopefully some exciting things will come out of that
19 soon. We have approximately 23,000 employees globally
20 in about 320 different locations around the world. So,
21 as I said, we're learning a lot more. We're hearing a
22 lot more these days about agriculture in light of the
23 growing challenges that our world is facing, in light of
24 climate change, population growth, and these other
25 things that are coming down the path for our -- during

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1 our lives and for our children's lives, and agriculture
2 is at the center of many of these debates. As a
3 mother, these conversations make me nervous because I
4 have to wonder what is my son going to see when he grows
5 up? Will there be any land for parks? Will there be
6 grazing lands or wildlife? And unless we can find ways
7 to increase productivity in agriculture, those things
8 may not exist. I don't know about you, but I like those
9 things. I like to go to the park and I like to go see
10 some deer, so I hope my kids have the same chances. And
11 at Monsanto we're committed to find ways to increase our
12 crop production on each acre of land. About a year and
13 a half ago, maybe about a year ago, after debating with
14 and talking to groups for about two years, we announced
15 our commitment to sustainable agriculture, and
16 essentially that's a three-part commitment. We first
17 committed to helping farmers to produce more acre, so in
18 our core crops of corn, cotton, and soy, we've committed
19 to developing seeds that will help farmers double yield
20 by the year 2030 compared to a base line of the year
21 2000. Again, a lot of you probably heard that in the
22 next 50 years we'll need to produce as much food as we
23 produced in the last 10,000 years combined. As much
24 food as in the last 10,000 years combined, that's a
25 pretty amazing feat that we face, and we need to find

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1 ways to do that. But we have to do that while we're
2 conserving our natural resources. Agriculture is a
3 primary user of fresh water and a large contributor to
4 greenhouse gases, and there's little arable land left
5 without cutting down forests, so we need to make sure
6 that we are conserving our resources and using one-third
7 less fewer inputs per unit of output as we work to
8 double yields. But none of these improvements in
9 technology matter if they don't get into the hands of
10 farmers and the farmers don't adopt them, and farmers
11 will not adopt technology unless it improves their
12 lives. If it doesn't increase their income or give them
13 more time out of the field and more time with their
14 families, it simply won't be adopted. And that's all
15 farmers. That's including resource poor farmers in
16 developing countries, and that's where I'm going to
17 focus a little bit more of my talk today. Farmers in
18 developing countries are very, very diverse. They range
19 from being 100 percent subsistence farmers to 100
20 percent commercial farmers. Subsistence farmers are
21 farmers growing what they eat. They consume their on-
22 farm production whereas the commercial farmers are
23 growing cash crops and food crops and they're
24 contributing to trade. What we've learned as a company
25 is that all of these farmers anywhere in that spectrum

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1 benefit from agricultural technology. As a company, we
2 believe that the best way to reach the small holder or
3 the subsistence farmers is actually through commercial
4 mechanisms, so the statistics show that about 90 percent
5 of farmers growing biotech crops are actually small and
6 resource-poor farmers in developing countries. So 12
7 million of the 13.3 million farmers growing biotech
8 crops are small farmers. That's the most sustainable,
9 the most self-sustaining, the most long-term solution to
10 improving their lives. In India, for example, farmers
11 have actually increased their income by about 118
12 percent as a result of growing Bolgard cotton. But in
13 many parts of the world farmers are either too resource-
14 poor or the traditional markets aren't functioning well
15 enough for them to participate. So we've also taken the
16 approach to give humanitarian donations. We give
17 donations of seed to the Millennium Village programs in
18 Kenya, Tanzania and Malawi. We also donated cash to the
19 World Food Program. We also donate our technology. We
20 donate the use of our intellectual property to the
21 public sector for use in research projects to improve
22 crops as casaba, cowpea or sweet potato for developing
23 countries. Unfortunately, a lot of those public sector
24 projects haven't developed and delivered a product.
25 They're still in the early stages of product development

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1 and they have a long way to go, but we're hopeful that
2 they'll come through with some key and critical
3 improvements to those so-called orphan crops. So those
4 are kinds of the two ends of the spectrum, commercial or
5 humanitarian. But those aren't the only two options
6 that we have. We also have the option of something in
7 between, and the something in between is where we work
8 with partners in what we consider kind of cooperative
9 development models. We work on business unusual
10 approaches, if you will, and often we need to find ways
11 that we're working with a micro-finance institution or
12 bank, an extension service, NGOs, a grain supplier or
13 grain purchaser, fertilizer company, and others to
14 develop a closed loop system for farmers in developing
15 countries. We also need to develop appropriate products
16 for those farmers such a smaller bag sizes or combo
17 packs so we're having the seed with the fertilizer and
18 the herbicide or whatever it may be, and that's a
19 targeted product for those small holders. So one
20 example of a type of program where we do that is a
21 project that we have in Mexico. It's called Educompo
22 [ph] and through this program we actually reach some of
23 the most remote farmers in Mexico. I was there just a
24 few months ago, and I was absolutely amazed that corn
25 could grow on the soils that we saw. First of all, we

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1 had to go up the side of a mountain with boulders that
2 were gigantic trying to maneuver our way through, and
3 then when we did get to the fields they were of course
4 strewn with rocks, but they were growing maize. And
5 through this program they've actually tripled their
6 yields and their incomes as well. So we partner with an
7 NGO called FUNDAR [ph] that basically is coordinating a
8 program working with input suppliers such as Monsanto,
9 and they've also linked these farmers to a tortilla
10 manufacturer. The tortilla manufacturer is the
11 purchaser for the grain obviously so it does complete
12 this kind of closed loop system. And Monsanto
13 contributes our expertise to the program. We do
14 training of the trainers. We also -- the unique part of
15 the business model for us is that we actually collect
16 payment for our inputs at harvest time. So we wait to
17 make sure that the farmers actually get a profit, and
18 then we collect. So another way that we reduce farmer
19 risk and help them to adapt is actually through our
20 products, so in a commercial platform we are developing
21 drought-tolerant corn for the U.S. market. Pretty early
22 on we realized that that technology had wonderful
23 potential benefits for other world areas, and especially
24 for Africa. Africa is a drought prone continent.
25 Ninety-five percent of the agriculture in Sub-Saharan

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1 Africa is rain fed. And as many of you have seen on TV,
2 we all see the effects of drought in Africa. And
3 currently a third of the population in Kenya is food
4 insecure partially because of political unrest but
5 primarily because for the last three seasons rain has
6 not come. So under the leadership of the African
7 agricultural technology foundation, we're part of a
8 public-private partnership to develop and deliver a
9 drought tolerant maize to Africa. We'll do this using
10 breeding and biotechnology. Through the program,
11 Monsanto has donated royalty free our top four
12 commercial track genes. We've also donated the use of
13 our global germplasm and our expertise and product
14 delivery and development. So we're leveraging our best
15 that we have to give for this program. We're also
16 working with others to leverage their best as well.
17 SIMIT [ph] is an international agricultural research
18 institute with a long history of breeding for drought
19 tolerance in Africa. They are also contributing the use
20 of their African germplasm to the project for
21 improvement with biotech. And then we're working with
22 national agricultural research systems in Kenya, Uganda,
23 Tanzania, Mozambique in South Africa, and those
24 organizations know their local environments better than
25 anyone else, and they also know the regulatory systems

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1 that are in place in their countries. So what we're
2 doing in this public-private partnership is really
3 leveraging the expertise of all of our organizations for
4 the benefit of small holder farmers. The project is
5 supported by the Bill and Melinda Gates Foundation and
6 the Howard Buffet Foundation. So as you can imagine, we
7 have got ten partners in this program. It is definitely
8 a complicated program. And one of the biggest things
9 that we've learned to date is that we need to respect
10 the diversity of all of our partners. The challenges --
11 IT challenges were not what we needed to overcome. We
12 will face some regulatory challenges in the program, but
13 simply the differences in sectors working together is
14 huge. Companies and NGOs and government organizations
15 work differently, and we need to find ways to work
16 through that because we need to work through that for
17 the benefits of small holder farmers. We need to keep
18 our eye on the prize and be committed to that end goal.
19 So there are many potential benefits of the WEMA [ph]
20 partnership. It's not a magic bullet, but it will
21 combine the best tools we have to maximize protection,
22 and we are hoping that in the end it will reach between
23 14 and 21 million people. We are also confident that
24 this program will increase scientific capacity in the
25 partners countries, both in testing for drought stress

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1 and standard operating procedures, compliance, and the
2 development sites, especially field testing sites. It's
3 also designed to benefit African seed companies
4 including small and medium enterprises. At Monsanto we
5 have licensed our intellectual property to AATF, who
6 then has the right to license to any qualified seed
7 company in these countries so that they can provide the
8 trait royalty free to their customers so that they can
9 potentially improve their businesses as well through
10 this program. And then the last part that I just wanted
11 to touch on today is that we also need to partner with
12 other organizations to develop capacity in developing
13 countries to conduct research and development for small
14 holder farmers. Rice and wheat are two staple crops
15 that millions of people around the world depend on
16 especially in Africa and Southeast Asia, but
17 unfortunately they lag behind in their yield increases
18 over the past decades primarily as a result of a lack of
19 investment in agricultural research. So while corn and
20 soybean have made significant yield increases, rice and
21 wheat have not. We were approached about this a couple
22 of years ago. Dr. Borlaug, who you see here, was one of
23 the approaches, and he said what are you going to do
24 about that? And last June, we pledged \$10 million to
25 work to improving rice and wheat yield specifically for

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1 developing countries. And the Monsanto's Beachell-
2 Borlaug International Scholars Program is a result of
3 that pledge. As I said, it's \$10 million. It's funded
4 at \$2 million for the next five years, and it's a
5 competitive fellowship program available to students
6 globally to attend a global institution. We're
7 primarily seeking to increase capacity in developing
8 countries for scientific research. One of the key
9 elements of the program though is actually making sure
10 that we are linking a developing country institution
11 with the developed country institution so students must
12 conduct part of their research in each institution.
13 They need to have a practical experience in both
14 settings, so if a student is coming from the Philippines
15 they may find that they want to do work at, say, the
16 University of Arkansas in rice research, but then they
17 go to Erie in the Philippines and they do their field
18 work, and that's what we're trying to do through this
19 program, create those linkages. Through the program, we
20 provide a full package of support for the winning
21 students, stipend fees, tuitions, travel, funds for the
22 collaborating institution and for the professor. And we
23 hope through this program that we'll be developing
24 future leaders in agriculture, people that one day are
25 going to be the next Dr. Norman Borlaug and the next Dr.

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1 Hank Beachell. It's a pretty ambitious plan, and we
2 know it, but we have an outstanding external panel of
3 judges who are reviewing these applications and they
4 take that task very, very seriously. They want to find
5 the next leaders. They want to find the next best young
6 students. So we had our first round of applications
7 this year. We had 48 applications. It doesn't seem
8 like much maybe but we actually announced the program at
9 the end of March and we closed our applications around
10 May 15, so it was a pretty quick turnaround, so we're
11 pretty pleased with the 48 applications that came from
12 all around the world. Twelve applications were funded
13 from ten different countries. The students came from
14 Ethiopia, Kenya, India, China, Argentina, Mexico,
15 Colombia, Iran, Syria, and Nepal. So you can see it was
16 a broad-reaching program. Ironically, one of the best
17 ways that we found to promote the program was through
18 Twitter and Facebook. Our funded applications included
19 nine in wheat breeding and three in rice. We hope next
20 year we'll get some better applications in rice, and
21 we're doing a lot of pounding the pavement right now to
22 make that happen. But our next round will run from
23 November 1 through February 1, 2010, so if you know of
24 some good students, some good quality students, please
25 have them apply. But, most importantly, there are some

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1 real challenges facing our society, and what we at
2 Monsanto know is that we can do our part to help address
3 those challenges, but we can do it best when we're
4 working with partners. We can do it best when we're
5 working with partners in Educompo or in WEMA or even
6 through the Beachell-Borlaug program for training. And
7 in order to meet those challenges, we are all going to
8 need to work together, and it's our obligation to do so.
9 Thank you for your time.

10 THE CHAIRMAN: Thank you. That was very
11 informative. I learned a great deal. Are there quick
12 questions from the Board or comment?

13 MR. BARLOW: Speaking of farmers, I think
14 you've got it on the target. If you'll give us an
15 opportunity to make a profit, we'll adapt to technology.

16 THE CHAIRMAN: That's a time-proved concept,
17 isn't it, Mr. Barlow? It's well proved. Well, our next
18 speaker is one that I really don't know that we need to
19 introduce because she's been involved in international
20 development in a great many different roles, and I'll
21 not take the time to go there except to say that Susan
22 Schram works in the President's office at ACDI/VOCA, is
23 Vice President for Outreach and Cooperative Programs,
24 and she's here to speak today on the topic Contemporary
25 Cooperative Development and Partnership Opportunities.

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1 Thanks, Susan, for coming over.

2 MS. SCHRAM: While we're getting ready here, I
3 guess I'd like to say that partnerships and friendships
4 can be virtual as well as face to face. Elizabeth and I
5 have been working together on a project and we've never
6 met, so it's delightful to be on the podium with you.
7 I'm here to talk about cooperatives today and
8 partnerships, but what I'm going to do is take five,
9 five, and five minutes for each of these sections
10 because I want to place this in an overall context. I
11 want to talk about what's exciting and new in
12 cooperative development, and then I want to talk about
13 the great potential for university partnerships. So I
14 want to talk about the excitement that I have and the
15 excitement that I hope you all have about what's going
16 on. We have so much to do but be happy. This is an
17 extraordinary year, and we're back. This is, I think,
18 the most exciting year that I've had since I've been in
19 this field. We have much to do, but we still have to be
20 pleased with what's been going on. With the global food
21 crisis as a stimulus the question in '08 and '09 was is
22 it possible to reset our systems, partner across the
23 usual boundaries and create a desired future for ag and
24 rural development via presidential leadership and U.S.
25 government support, U.S. legislative action, and

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1 concerted advocacy with many partners. That was the
2 question with the crisis as a stimulus, can we do it?
3 Yes, and partnering is and was key. Where have we been?
4 We've all -- this field is full of great people working
5 concertedly despite resource limitations, and keeping
6 on, keeping things going, keeping groups going, but it
7 was pathetic. Look at the resource declines and the
8 lowest in 2008, \$283 million for the United States
9 contribution to ag and rural development. Frankly, this
10 made me first ill and then angry. What happened? So we
11 have this low water mark of 2008 and many of who have
12 dedicated our lives to this career felt it was time for
13 a change in appropriations and in partnership dynamics,
14 and we had no idea how all of it would turn out, but if
15 we could not capture this moment of the global food
16 crisis and turn this situation around, it would be very
17 sad in my opinion. So we started, and in 2008 we
18 started advocacy partnering. I feel in this field we
19 have fabulous people. There are no better people in
20 this field. We have fabulous papers. We have
21 intellectual leadership. We have justification of
22 hungry people. We have never had a solid partner to
23 appropriations strategy so this is what the first thing
24 is that we set out to do, and there was an unprecedented
25 array of partners that came forward. We organized CPAD

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1 [ph] the coalition for agriculture development. We
2 brought together for the first time in history
3 universities, NGOs, faith-based groups, and private
4 sector companies like Monsanto, Pioneer, Syngenta et
5 cetera, et cetera. Frankly, at some time in the past
6 we've had a splintered advocacy group, some for us, some
7 against us saying why don't you help the U.S. farmer,
8 not the global farmer. Now with global trade, we
9 realize those markets are our future. And then
10 supportive reports started coming forward, incredible
11 supportive reports, the World Banks, WDR, the CSIS
12 strategy, the Chicago Council Report that Catherine
13 helped to lead. IFPRE of course always had excellent
14 information, the GAO report, the APL dean's paper,
15 Hunger road map, on and on. Then what happened? Mr.
16 Lugar stepped forward brilliantly, thank goodness, what
17 a statesman, with his strategic lead with the Lugar-
18 Casey bill. We advocacy folks didn't even have a number
19 to go for, but Mr. Lugar put that number in there. We
20 thought we would be thrilled if we got \$750 million, now
21 we're up to the potential of 1.2 billion. This is
22 fantastic. Ms. McCollum took leadership in the House
23 and came forward with a broader approach. She involved
24 more NGO input and the NGOs really like this bill, but
25 McCollum also preserved all of the university aspects

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1 that were put forth in Lugar so we're fine there. We
2 have possible foreign aid reauthorization and we have
3 what's called a marker bill that doesn't authorize
4 anything but it's a result of the hunger road map,
5 Emerson effort, which is excellent. We have
6 unprecedented White House leadership. We can advocate
7 until, pardon the expression, the cows come home. If
8 the President doesn't put a big number in to start the
9 process it's very hard, and President Obama came forward
10 with these incredible numbers. Where are we now? We're
11 successful. We have a House subcommittee mark of a
12 billion for ag and food security for FY 10 and the
13 Senate subcommittee mark of 1.2 billion. If we come in
14 somewhere between those two, fabulous. Conference is
15 pending. It won't happen to the fall. We also had
16 success with the cooperative development program. We
17 already have, like BIFAD, we have the legal standing,
18 the Overseas Cooperative Development Act, saying we
19 should do more with cooperative development, but we've
20 never had, as we all have not had, many resources. So
21 for FY 10 we've been successful in doubling the
22 resources for the cooperative development program at
23 USAID, and of course we cooperative development people
24 like ACIDI/VOCA, which I represent, are doing other
25 programs in cooperative development as well. We have

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1 Administration leadership. This is fantastic. Are you
2 kidding me? A government wide food security. Wonderful
3 strategy. We have Karen from the Office of Development
4 Partners, who has been very forthcoming in helping us
5 know how to work together and new Office of Agriculture
6 leadership. The development leadership initiative
7 bringing young people in and more strategic thinking
8 really across the continuum bringing food security
9 together with then what do you have to do after you do
10 the relief or if you're in the conflict, how do you have
11 to turn that into development for sustainability? We've
12 had success for our partners, growth in private sector
13 interest, like Elizabeth said. We have incredible
14 cultural differences but we're working them out, and
15 with good people on both sides we can do that. We have
16 World Bank programs accelerating. Mr. Zelik [ph] has
17 been fantastic UN leadership with the overall strategy.
18 I had as well the EFAD [ph] United States support group
19 to increase our contributions to EFAD. We think we're
20 going to get about a 67 percent increase there. FAO is
21 active, and more country voices are being heard. Bottom
22 line, we're in much better shape financially to help
23 meet the development needs of rural people and ag and
24 food security is going to be a global priority in the
25 coming years. So what is one of the challenges we face,

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1 and just for purposes of discussion today, of course, we
2 have many challenges, but one is partnering, partnering
3 more effectively to leverage those resources and work
4 together to better meet strategic development assistance
5 goals. So in the ideal world, we would have, for
6 instance, reform regularly adjusting U.S. foreign aid
7 policy. We'd have our USAID administrator in place.
8 We've have quantitative and qualitative indicators we
9 were working on, and we'd have consistent expertise in
10 developing countries. Well, we're not quite there yet,
11 but, you know, we can hope. Meanwhile, we've been
12 working on polishing ourselves up in the cooperative
13 development community, and this is where I want to get
14 into talking a little bit about what's new and exciting
15 in co-op development. We've been working with Tom
16 Carter. I don't think Tom is here today but he's our
17 excellent cognizant officer at USAID who has technical
18 expertise from years of working in dairy co-ops in
19 India, and is a very, very dedicated person. And he's
20 helping us working together. We have something called
21 the Overseas Cooperative Development Council and a lot
22 of cooperative development organizations are in that
23 ACDI/VOCA, Land of Lakes, CHF International, and so on.
24 And Tom is helping us work together on issues critical
25 to cooperative development. A few years ago if you

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1 would go in and search on what the U.S. is doing on
2 this, you really wouldn't find many policy papers
3 overall. You'd find a lot of wonderful experts at
4 universities, but not stating what's the U.S. really
5 doing on all of this? So this is what we're about.
6 We're dialoging consistently with ODP. We're very
7 pleased at Karen's leadership. We're better defining
8 our nitch. We have a new executive director. Many of
9 you know Rob Kneuter[ph], and we're overcoming
10 stereotypes in telling our story. So strategically I
11 would like to discuss just for a moment the
12 contributions that we think that cooperatives can make.
13 You know, we can list things but we need to be
14 strategic, and I would encourage BIFAD to do the same.
15 What's the problem and how can strategically
16 cooperatives contribute to it, which is what we're
17 about. We think it's driving economic growth,
18 contributing to ag development and food security,
19 opening markets and expanding trade, promoting
20 Democratic governance, developing people and
21 communities, and mitigating conflict. And the impact is
22 huge. When I started with this group, I set about to
23 write this paper called Pathways as head of the chairman
24 of the development committee because I was reading these
25 statistics. Look at this, 100,000 dairy co-ops in India

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1 with 12 million members, rural electric co-ops in
2 Bangladesh, 28 million people, an incredible success
3 story. I won't go on and read all through them, but you
4 can see that this impact is at scale. And still
5 negative stereotypes have been persisting about
6 cooperative development, much of it based on old
7 parastatals and bad experiences in the past. I really
8 felt we needed to move to the future and say, you know,
9 what really can we do in terms of pathways to
10 development through cooperatives, so we developed this
11 paper. I'll give you the web address where this is at
12 the end, and this is very, very -- there is a lot of
13 university scholar involvement in this in terms of
14 interviews, but we have many examples in this paper of
15 how the modern cooperative can offer a pathway to
16 economic, democratic, and social development. So what's
17 new? There's been a cooperative renaissance of sorts
18 with economic liberalization, global markets, fair
19 trade, democratization, civil society, social inclusion.
20 These are all themes that cooperative development can
21 work on. There's concern about some corporate models.
22 Cooperatives tend to put people first in their welfare.
23 We should emphasize that although we also have economic
24 gains definitely. We've seen the failure of social co-
25 ops. We've seen privatization issues. We are needing

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1 to grapple with gender issues. We see conflict recovery
2 issues. We think co-ops can contribute to all of these
3 things. So what are we doing? Well, we put the
4 Pathways document together, which included contributions
5 and examples from eight U.S. cooperative development
6 organizations with extensive university interviews, and,
7 as I said, articulating sort of a modern view for
8 cooperatives. We've stepped up congressional advocacy
9 for USAID's cooperative development program. As I said,
10 we hope if all the bills pass and things come to pass in
11 the way that we see, we'll double the resources for
12 that. We're working more on joint projects. As many of
13 you know, the enabling environment is key to whether a
14 cooperative can exist or not, especially the law. We
15 put together a series of principles called clarity on
16 what you need to really have in cooperative law in a
17 developing country in order to make that work. And then
18 we put together creating clarity which is examples --
19 includes examples of how that actually can work. We
20 have a metrics project going. That's headed up by
21 someone we all know well, John Miller, taking a look at
22 the metrics for cooperative development assistance and
23 what you really need to do to have a sustainable co-op
24 in the end. We're working on program evaluation with
25 Brian Foster to see what we can do better, and we're

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1 working more closely with AID and we're reaching out to
2 new partners. So in my last segment, let's talk a
3 little bit about how universities are critical partners
4 for us. We need your intellectual input and there
5 hasn't been much of a connection in the past. This is
6 something that Tom Carter is really promoting and that
7 we're trying to do. We've had seminars with our
8 development committee. Many of you know Mike Cook, a
9 leading scholar in cooperative development from the
10 University of Missouri. He joined us and shared many of
11 his absolutely brilliant cutting edge concept ideas.
12 Research sharing, we were part of advocating for the big
13 University of Wisconsin study on co-ops and what they
14 meant to the economy of the United States. I was at the
15 ICA conference in Italy a few months ago and was on a
16 panel with Ann Hoyt from the University of Wisconsin.
17 This is a mind-blowing study with data that is
18 incredible. I don't know how they managed all of that
19 data. But we are going to now say, okay, look what the
20 United States economy has benefitted from. Look at how
21 they benefitted from cooperative development, can't we
22 take that to developing countries and make the same kind
23 of thing happen. And we're going to go around on the
24 Hill and say, look, Congressman so and so, in your state
25 this is what has happened. Can we do this in developing

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1 countries? We use intellectual resources. I have a web
2 page that I've developed at ACDI/VOCA on cooperative
3 development. I'll give you the address at the end, and
4 we link to intellectual resources at universities all
5 around the country. We have links to university
6 cooperative development centers like Wisconsin, Kansas,
7 and so on. We have links to the papers of scholars, and
8 anyone can access that at their fingertips, and we need
9 this continuing input. We have CDP project partners.
10 ACDI/VOCA has BARA, Bureau of -- I can never remember
11 the acronym, Bureau of Applied Research in Anthropology,
12 at the University of Arizona. And they're doing
13 research and evaluation for us. They're taking a look
14 at some of our interventions and seeing where we could
15 have done better in terms of staging the interventions
16 that we applied and so on. So it's really this long-
17 term involvement, intellectual resources, research
18 evaluation, those are key watch words for university
19 partnerships with co-op development. And I want to talk
20 a little bit about the importance of research and a
21 research agenda, which we address in the Pathways
22 document. And this is where we had a lot of interaction
23 with university scholars, which are all listed, by the
24 way, at the back of the document, and what we need
25 really is to bring back cooperative development in the

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1 same way we're bringing back food and agriculture. A
2 forward looking international network of researchers and
3 practitioners to bring new analytical and practical
4 methods to the advancement of proper development in the
5 global economy and to dispel outmoded assumptions about
6 co-ops. And in the document you'll see the research
7 issues that we've identified, and we look forward to
8 interacting with you on these. Capitalization, a huge
9 issue especially in developing countries, legal and
10 regulatory environments, governance participation, roles
11 and conflict, strategic change, designing for impact
12 assistance, and on and on it goes. We need university
13 partners especially for these research issues. Okay.
14 That pretty much concludes my remarks. I would refer
15 you to two sources, ocdc.coop is the OCDC web site where
16 you can see more on cooperative development. And
17 acdivocacoopx.org is our ACDI/VOCA page. So thank you
18 very much. It's a pleasure to be here and to be here in
19 this exciting time for our field. Thank you.

20 THE CHAIRMAN: It truly is an exciting time,
21 and thanks for helping build our enthusiasm this
22 morning, Susan. I occasionally put on that small hat
23 that I have and serve as a small Midwestern grain
24 farmer, and as you were speaking I could only think
25 about the role that cooperatives play in that part of my

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1 life. I get my seed from a co-op, my fertilizer from a
2 co-op, I sell my corn through a co-op and on and on, and
3 it's an incredibly valuable dimension especially to
4 American agriculture but also to global agriculture.
5 I'm in this embarrassing situation where I'm introducing
6 the next speaker that I don't know. You probably never
7 had that situation. Now I'm past that. Okay. If you
8 would come forward, Brian Greenberg, who's with the NGO
9 community. His topic is NGO Community as Frontline
10 Partners, and he's the Director of Sustainable
11 Development, InterAction. Brian, thanks very much.

12 MR. GREENBERG: Well, it's a pleasure to be
13 here, and I want to thank all of you and to BIFAD for
14 your interest in my perspectives. It's tough to follow
15 Sue to the podium, but I hope that I can share some
16 perspectives with you that offer you something a little
17 bit additional and that provides some food for thought,
18 if you will, as we go along. And I apologize in
19 advance. My comments are a little bit tossed together.
20 I've been trying to think how I might add value to your
21 conversation here and so it's not as polished a
22 presentation as I'd like it to be, but I hope you find
23 some useful points in it. Just to help you understand
24 where I come from, I come from the nonprofit NGO
25 community and I am now with an organization called

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1 InterAction which is an umbrella organization for 180
2 U.S. NGOs that do international development and
3 humanitarian assistance and environmental work in
4 developing countries across the world, and which
5 collectively program in the neighborhood of \$6 billion
6 to \$9 billion a year into developing countries. And
7 disproportionate of the amount of that given the
8 allocations that we generally get out of our USG budgets
9 goes to rural development and agriculture, so this is a
10 significant investment in agriculture in developing
11 countries, and as you'll see there's some ways that we
12 might work better with you and that you might help us to
13 do better work. It's important to say though that the
14 perspectives I want to share are in a sense personal and
15 not meant to represent a consensus opinion in the NGO
16 community because we're extraordinary diverse and broad.
17 So some of what I want to say comes from my background
18 through more than a dozen years working directly in
19 applied field agricultural development programs in half
20 a dozen developing countries, and it comes from sort of
21 a confused intellectual personal background in that I
22 was an undergrad major in botany and biochem and did my
23 graduate work in cultural anthropology and always wanted
24 to work in agricultural development. Some of the
25 challenges I faced in doing that as an anthropologist, I

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1 think are interesting in terms of the stovepiping of
2 intellectual tradition and training in our university
3 systems. But for our community in general, it's fair to
4 say that food security and agricultural development is
5 really a major issue, poverty reduction, livelihood
6 improvement, hunger are sort of at the center of what a
7 lot of our organizations do. And we have continued to
8 as the NGO community to prioritize agricultural
9 development against the currents of official ODA in
10 large part, and as Sue pointed out, the progressively
11 evaporating U.S. support for ag development. But,
12 sadly, it took the food crisis really to change the
13 circumstance of ag development for us and to inject more
14 dynamism in a sense of renewed purpose into our
15 community around these issues. So really the two major
16 forces that we're dealing with are, first, the sequel to
17 the food crisis, and, secondly, the current financial
18 crisis, which has really stressed our membership, and on
19 average probably our member budgets are down anywhere
20 from 15 to 40 percent this year, so it's a challenging
21 time for our community. But in those challenges I want
22 to suggest that there's some opportunity for
23 partnerships. And what I want to say, I know I'm making
24 some generalizations and risking some simplifications to
25 try and highlight some points that may be useful to us.

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1 The first one is that the causes of the hunger crisis
2 that peaked a year and a half or so ago but is still
3 with us, food prices still historically have been high,
4 really had to do with global food prices, persistent
5 poverty and less with overall food scarcities on a
6 global scale. It was putting the money together with
7 the food supply that caused a problem for a lot of
8 developing countries and especially for the most
9 vulnerable communities. Poverty is really the root
10 cause of hunger and it was the oil price run up and
11 biofuels mandates and distorted trade policies in global
12 agriculture, not simply here at home, that really made
13 things difficult. Nonetheless, that came against a
14 backdrop of decades of under investment in agricultural
15 development and capacity in developing countries which
16 reduced resilience for many people. It pushed many
17 people into more dire circumstances, but as many of you
18 know if we're talking about hunger it's located in the
19 large sense in urban areas and seasonally in rural areas
20 and among the landless, and it's very difficult to
21 address that effectively or at least completely through
22 improved agriculture, though that is a key component to
23 it. Fortunately, now, as Sue pointed out, we are
24 enjoying a positive trend in terms of renewed support
25 for international agricultural development, and a

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1 rebalancing of the allocations that had gone to
2 something to food aid and back in the direction of long-
3 term agricultural development. And if you need any
4 better indicator of the shortcomings of long-term
5 agricultural development, it has been the 10 to 1 or so
6 investment in food aid which we have continued to make
7 over the years at the expense of long-term agricultural
8 development. But the fate of key legislation is still
9 in doubt so I'd suggest there's really no room for
10 complacency, and I really want to applaud the kind of
11 advocacy partnering that Sue was talking about in terms
12 of really solidifying the renewed awareness and public
13 support of this, but we're not there yet. So I want to
14 suggest that it's in part the extremely tight resource
15 environment for U.S. NGOs that makes possible
16 partnership opportunities that may not have been there
17 before. And in saying that, I'm essentially saying that
18 things have not -- the partnership profile, and now here
19 I'm talking about field programs. I don't mean this to
20 refer so much to the advocacy situation but in the field
21 partnering between the NGO community and universities
22 had not been as strong as it might be. And that's not
23 withstanding important exceptions such as the CRSPs, and
24 co-appearance of NGOs and universities in some IQC
25 teams, but those relationships have tended to be remote,

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1 at least in the field because there's targeted technical
2 assistance drawn from one or the other, so it isn't a
3 close collaborate experience. A lot of NGOs have had
4 closer relationships when they think about moving from
5 research results into the field with the CG centers, for
6 example, so I think it's worthwhile thinking about what
7 the reasons for that might be. And I'll risk being -- I
8 want to risk being a little bit provocative here in
9 offering the perspectives of my tribe. And I know that
10 all of you without breaking a sweat could spank the dust
11 out of the NGO community and that would be a valuable
12 contribution, and maybe you'll have another chance to do
13 that. But I want to make some suggestions about ways
14 that we might work together and the ways that you might
15 adjust the kinds of programs you support to make that
16 more likely. I think there's a significant opportunity
17 and incentives even for greater engagement between us .
18 NGOs need technical support. We need new ideas. We
19 need regeneration of our program approaches. And we
20 have a lot of staff turnover. That's an edemic hazard
21 in the field. We need to find ways to overcome that.
22 But we tend to look for lower overhead ways to get the
23 kind of good enough technical solutions that are typical
24 in the field rather than high end expertise, so that's
25 one of the gaps that we face. At the same time, we

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1 really need to improve our practice standards. NGOs
2 have developed sort of a core body of shared knowledge
3 and understandings and in many cases impressive
4 expertise, but there's also a sense in which the
5 programs that we feel because some of us are somewhere
6 independently funded are less accountable to current
7 technical standards than they might be. And if we could
8 find ways to push the technical power of improved
9 productivity, packages, and so forth out to the field
10 regularly and update the knowledge of our staff, it
11 would be very -- I mean we would be more effective in
12 development terms and for us we'd be more effective in
13 terms of competing for always scarce field resource
14 dollars. And at the same time, I might just guessing a
15 little bit here but the university community probably
16 wishes for greater development scale and field impact
17 for all of the good work that's done and the educational
18 training and the research breakthroughs and so forth
19 that are sought at universities. Probably you'd like to
20 get those out into the field and to have a greater, more
21 reliable pathway and the tens of thousands of NGO staff
22 and field programs that are out there provide ways of
23 doing that. And especially if productivity gains,
24 production gains, aren't the only objective if poverty
25 reduction and livelihood improvements are what's at

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1 issues for the most vulnerable then there's certainly
2 more that we could do. But I'd be sugar coating the
3 issue to say that if I didn't say that current
4 identities and business models on both sides perhaps
5 complicate the partnership prospects. The NGOs tend to
6 present themselves as already having the experience and
7 the development solutions that they can feel and that
8 can be replicated easily and effectively if only the
9 resources were available. As we'd say, we have the
10 experience. We really don't need advice. What we need
11 is resources. And there are other things that create
12 skepticism between the communities and things like the
13 legacy by DOLE [ph] and what that's -- and issues around
14 biotech and GMOs. And sort of it's not a luddite, but
15 if you will there's an affinity for less technical
16 perspectives in the NGO community on what the needs are
17 in the ag sector. NGOs often tend to see the
18 constraints as social, economic, educational,
19 environmental, governance, political, market
20 development, and so forth. There's a sense, and perhaps
21 some reality, that the universities' perspective on
22 agricultural development is more in terms of technical
23 deficits so that you're drawn to technical and research
24 strategies is ways to solve those. So from the outside
25 perspective outside the academy there's an urge to

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1 knowledge creation rather than problem-oriented
2 knowledge dissemination, and I'd like to suggest that we
3 already know an enormous amount about what makes for
4 effective agricultural development and what can make for
5 low cost productivity gains for resource poor farmers,
6 and these are things that also make good environmental
7 and sustainable sense, agro-ecological approaches, low
8 external input approaches, and for me if I would be
9 looking for exponents of this in addition or beyond
10 Normal Borlaug, I would look to people like Dr. Uphoff
11 as spokespeople and as representatives for this, and
12 I've always found his work inspiring in this regard in
13 terms of pointing practical ways for NGOs to get ahead.
14 So we know a lot already about human capital creation
15 and low on the medium end for rural transformations and
16 for market development. The problem is getting it out
17 to the people who need it and can make best use of it.
18 And the university model of lengthy trainings and
19 educational research approaches sometimes to be a slower
20 response to that, and I understand the importance of
21 long-term technical capability and so forth. But NGOs
22 are in the field and they have a community presence, and
23 they are uniquely able in the current development
24 context to push that out. I want to suggest that there
25 are research approaches and knowledge management

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1 approaches that could be adopted by universities, and I
2 want to point out specifically things like EFAD's
3 effort, the innovation mainstreaming initiative, IPRE's
4 effort to document proven successes and my own
5 organization, InterAction's initiative to identify best
6 practice approaches in agricultural development.
7 They're all low tech and they all really promise
8 significant kind of productivity gains. I also want to
9 suggest that there are opportunities for universities to
10 shape the research agendas of upcoming graduate students
11 by putting them into the field with NGOs to do things
12 like help define their Ph.D. research agenda, and that
13 could be a summer program which exposed people to the
14 realities of developing country, agricultural context
15 and help them shape research agendas around that. I'll
16 close here by saying that in terms of the overall
17 strategy for international agricultural development that
18 we would advocate, we have developed a response to the
19 interagency, the U.S. governments' interagency task
20 force on food security, which had been called the one
21 table, and I have a couple of copies of that if you'd be
22 interested. We've also developed a recent position
23 paper on ag extension, which may be relevant to you if
24 you're interested. We definitely as a community support
25 the kinds of things that Deborah's presentation

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1 identified. Climate adaptation and mitigation
2 opportunities are going to be enormously important. The
3 production or the yield declines that are projected in
4 many of the most vulnerable countries are really
5 frightening and in order to do ag development, we're
6 going to have to first compensate for those before we
7 can build the productivity gains we all seek. So that's
8 got to be an area of focus. Environmental
9 sustainability, I'm sure I'm preaching to the choir
10 here. And a high priority for pro-poor value chain
11 development, not simply the economic development
12 approaches through agriculture but for our community it
13 needs to be pro-poor. Closing thought here. It's
14 really not as much about agriculture as it is about
15 livelihood's improvement in terms of development and
16 improving the condition of people in developing
17 countries in rural areas. Ag has a vital role to play
18 in that but we need to move much beyond the perspective
19 that sees it as a production issue. Livelihood gains go
20 to poverty reduction which goes to improved food
21 security, and I think at the core to that how you do
22 that, that's the strategy. Tactically, I think most of
23 us see that as a matter of access, involvement, rights,
24 education, and empowerment for women who really are most
25 of the farmers in developing countries, and so I don't

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1 think that -- perhaps that note hasn't come across this
2 morning, but we see that, along with community
3 participation, transparency, accountability, and aid
4 effectiveness perspectives. So we see those as
5 important to really creating context in which the
6 technical improvements that you generate in agriculture
7 can work to have a fertile social, economic, political
8 human capital ground for those technical improvements to
9 work. Thanks for your patience. I appreciate your
10 time.

11 THE CHAIRMAN: Thank you, Dr. Greenberg, for
12 coming along and sharing your thoughts, and certainly
13 the notion that it's more than just technology resonates
14 with the Council of Deans notion that it is a system and
15 the system involves cultural components as well as
16 science and others. I've asked Dr. Kerry Bolognese, VP
17 for International APLU to introduce our next speaker.
18 Kerry.

19 MR. BOLOGNESE: Thank you, Bob. This is an
20 honor. I really do appreciate it. Our next speaker is
21 Connie Veillette. Many of you know her. Connie is
22 currently the principal staffer working on food security
23 legislation that we all dearly call the Lugar-Casey
24 bill. She's working on this bill for Senator Lugar on
25 the Senate Foreign Relations Committee. She's been a

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1 wonderful colleague to work with. She's open, she's
2 accessible, she listens to concerns of the university
3 community. We've had a lot of back and forth with
4 Connie as a multitude of stakeholders have. And so
5 she's put together with the help of others a very, very
6 good bill. In fact, last year at the APLU annual
7 meeting, we had our session about the Lugar-Casey
8 legislation. The first hand went up and the comment was
9 are you kidding? This is what we've been working on for
10 the last so many years so that's a testimony to your
11 work, Connie. Before her tenure with the senator, she
12 worked for the Congressional Research Service, and as a
13 former staffer the Congressional Research Service was
14 our cheat sheet. It always used to give us the facts
15 and figures of things we needed to know. And then
16 before that she was a long time staffer for the long
17 time member, Ralph Regula [ph] from Ohio, who was a long
18 time member of the House Appropriations Committee and
19 chairman of the Labor committee, subcommittee, on
20 appropriations that we worked with. So without any
21 further adieu, Connie, the floor is yours.

22 MS. VEILLETTE: Thank you very much. I had
23 prepared very brief remarks because I was supposed to be
24 sharing the stage with my partner in crime, Peter
25 Frosch, from Congressman McCollum's office, and then I

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1 got to listen to great presentations by Susan and Brian
2 and realized that they are saying everything I wanted to
3 say anyway. So I'm going to be even briefer. I wanted
4 to give you some brief background on the Lugar-Casey
5 legislation, talk a little bit about the staff study
6 that we did, talk about the role of higher education,
7 the vision we have for that within the legislation, give
8 you a little bit of background on the approach that we
9 took in the legislation within the whole debate on aid
10 reform and talk to you about the HECTARE program, and
11 then I'll give you the status of the bills in both House
12 and the Senate. Unfortunately, Peter is not here, and
13 he could give you a lot more information on the House.
14 Peter and I did not have a chance to talk before I got
15 here, so I can tell you generally what's going on, but
16 we'll have to get Peter back here at some point to talk
17 in more detail. As you know, the Lugar-Casey
18 legislation was put together as a result of the price
19 inflation that we had in 2007 and 2008. Senator Lugar
20 was very interested in this for a lot of reasons. One,
21 he's a farmer, two, he's the former chairman of the
22 Agriculture Committee, and former chairman of the
23 Foreign Relations Committee, and now the ranking
24 minority member there. And he was very interested in
25 all the studies and a little bit of the hysteria on the

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1 causes. Everybody was trying to figure out what was the
2 cause of the price hikes. And for him it was very
3 evident that we, both donors and governments in
4 developing countries, had been under investing in
5 agriculture, and that that created a chronic condition.
6 You add in then high fuel prices and that chronic
7 condition became acute. So that was what led us to get
8 more involved in it. Senator Lugar at one point told
9 the staff of the committee go forth and figure this out,
10 so we did. We did a staff study, went to ten different
11 countries from a full range of food security so Costa
12 Rica and South Africa at one end, Ethiopia on the other
13 end. And we really wanted to bring a field perspective
14 as to what was going on. There are so many studies out
15 there, really good studies from a lot of different
16 organizations, private organizations, NGOs,
17 international organizations on how to achieve food
18 security. It was good for us, and I think our unique
19 perspective was to actually go out into the field and
20 talk to the implementing partners to USAID, to the
21 universities, and just try to raise and highlight some
22 of the issues that we felt needed to be overcome if we
23 were really going to be able to work together to achieve
24 food security. So what we found during that study, and
25 the study, by the way, is available online. It's a GPO

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1 print. It's called Global Food Insecurity, a Field
2 Perspective, and you can also get it on the Lugar web
3 site so if you're interested if you haven't seen it
4 already. So the study informed the approach that we
5 took in the legislation, and these were some of the
6 things that we found. One, addressing chronic hunger
7 requires a multi-sectoral approach. It's not just about
8 raising farm productivity, that if you don't have roads
9 and you don't have storage, et cetera, you're just never
10 going to reach security. There are just so many other
11 factors in play, and I'm not going to name them all but
12 transportation, food storage, nutrition and health, land
13 rights, market development, clean water, education,
14 technology, you could add a handful more. The second
15 thing that we wanted to highlight was that hunger and
16 poverty are two sides of the same coin, so if you're
17 hungry you're probably poor. If you're poor, you're
18 probably hungry, and that we had to look at solving both
19 of those problems as one problem. And, in fact, we make
20 the statement in the study that food security is the
21 essence of development, of development work, but that
22 the work that we do on development has to have that
23 hunger and poverty alleviation focus. That has to be
24 the main objective and that everything else can follow
25 from that. We also found an important role for

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1 education, both for U.S. universities and for foreign
2 universities in countries with chronic hunger and
3 poverty. In each country that we went to, we made an
4 effort to visit at least a couple of universities that
5 had agricultural sciences departments, and what we found
6 is that they were not structured to promote innovation,
7 knowledge sharing, research, or even teaching for any
8 other purpose but to produce government bureaucrats, and
9 that wasn't going to be enough to get the ball rolling.
10 And then in addition to that, you have Senator Lugar,
11 who is a firm believer in the model of land grant
12 universities and the role they play in developing U.S.
13 agriculture, so it's no wonder that we had a program in
14 the bill that we call HECTARE. That was a directive
15 from Lugar to -- you know, there was recognition that
16 U.S. universities have always played a role in foreign
17 agriculture, but he wanted to up it. He wanted to
18 provide a fuller and more robust structure for that type
19 of engagement. So let me talk a little bit about the
20 approach of the legislation because this is something
21 that I talked to a lot of you about as you asked me to
22 put this in or put that in, and I would resist because I
23 told you we were trying not to micro-manage. At the
24 same time that we were writing the food security bill,
25 we were also immersed in trying to figure out aid reform

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1 and how we can bring about better coordination and
2 coherence in our aid programs that are just littered
3 across government and across so many different accounts.
4 So the food security bill actually became our first
5 foray into aid reform. So what does that mean? It
6 means that we are trying in the bill not to micro-manage
7 USAID but to set priorities and objectives for U.S.
8 development policy. You know, on Capitol Hill everyone
9 thinks they're an expert but in fact we're not experts.
10 We're generalists. We're flying at 3,000 feet. Some of
11 us are on committees or when I was at CRS got to delve a
12 little bit below the clouds and learn a little bit more
13 detail. We don't know development policy and we should
14 not be dictating development policy to USAID. But
15 Congress does play a big role in determining what are
16 U.S. priorities and how we can organize government to
17 achieve those priorities. The bill also actually
18 rewrote Title 12 of the Foreign Assistance Act. We did
19 that because there's so much talk about trying to
20 rewrite the entire Foreign Assistance Act. We thought
21 we'd take Title 12 since it was so central to food
22 security and see what we could do with that. The
23 approach is multi-sectoral so the bill provides a lot
24 more money, but doesn't say that it's supposed to go for
25 just agricultural productivity. It's very clear that we

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1 want to get at how do you solve hunger and poverty by
2 looking at a multi-sectoral approach. It's trying to
3 improve responsiveness and flexibility particularly to
4 food emergencies, and for the HECTARE program the bill's
5 approach is to provide some pretty detailed guidelines
6 as to what we envision, how we envision the program
7 working, but leaving it to USAID and to BIFAD, which the
8 bill calls you the HECTARE board, to figure out and to
9 make those recommendations. We realize that we could
10 not write a program. If we did write a program in
11 detail that it was going to be a one size fits all and
12 that that's not the way it should work, that there are
13 different approaches for different countries, and that
14 USAID should have the flexibility to design programs
15 that work for each country. And we tried to avoid
16 possibly uninformed congressional earmarks in the
17 process. Let me talk to you a little bit about the
18 status of the legislation. As you know, in the House it
19 has been introduced with Congresswoman McCollum as the
20 lead sponsor. Her staff person, Peter, and I have
21 talked a lot over the last year and they took the Lugar-
22 Casey bill and added some stuff to it. Peter and I had
23 agreed on the principles that we all should be following
24 during that process and we feel pretty confident that
25 the McCollum bill and the Lugar-Casey bill can be

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1 conferenced very easily. We don't think that they
2 diverge very much from each other. My understanding is
3 that the House bill is waiting consideration by the
4 House Foreign Affairs Committee, and that that is
5 largely a determination that Chairman Berman has to make
6 as to when he is going to bring that bill to the
7 committee for consideration. In the Senate it's already
8 been reported out of our committee. We are looking for
9 opportunities to bring this to the Floor, and that means
10 also trying to partner with Secretary Clinton's
11 interagency process. We have not been pushing to the
12 Floor for a couple of months. We've held off in
13 deference to Secretary Clinton's process. We felt that
14 we were happy that they were trying to do something that
15 was whole of government and we wanted to give that
16 process a chance to develop more. We pretty much told
17 the State Department that we're ready to roll, that we
18 need to get this bill to the Floor. Secretary Clinton
19 has told us that she believes that passage of the bill
20 would be helpful, which is maybe one rung less than a
21 wholesale endorsement, so anything you can do to get us
22 that endorsement would be great. In the meantime, we're
23 collecting as many co-sponsors as possible. We just had
24 Senators Cardin and Johnson add their names so we're up
25 to 11. We think that's pretty good. We've had some

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1 opposition expressed to us because we make reference to
2 GM technology as an additional tool in the toolbox that
3 we should use and some groups are not happy with that.
4 We've had some resistance, and I'm sure you're all aware
5 of this, from the Department of Agriculture, who really,
6 really, really like the HECTARE program so much that
7 they want it. So we're trying to work that out with
8 both the ag authorizers. We have Senator Harkin as a
9 co-sponsor, but we're working with Senator Chambliss on
10 trying to figure that out. We think that coming to an
11 accommodation with the Department of Agriculture is very
12 possible and we're willing to talk to them, and we've
13 also told them that we really want Secretary Clinton to
14 weigh in on this topic as to what the appropriate role
15 for USDA should be because this is supposed to be a
16 whole of government initiative, and the bill is
17 promoting a whole of government approach and so we don't
18 want to just pick and choose on our own. Just to close,
19 I want to thank all of you who worked with us from the
20 beginning on this and those that continue to work with
21 us. Your support has been absolutely fantastic. If we
22 didn't have your support, we wouldn't be where we are
23 right now. So I hope that that continues and we're open
24 to continuing the dialogue and doing what we need to do
25 to get this bill passed, so thank you very much.

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1 THE CHAIRMAN: There may be a few questions.
2 Would you be available to respond? From the Board, any
3 questions or remarks? Yes.

4 MS. MURANO: Any reason as to why Secretary
5 Clinton has not fully endorsed it? It seems like she
6 should.

7 MS. VEILLETTE: Okay. You're going to require
8 me to be more diplomatic than what I'm actually possible
9 capable of doing. I think the diplomatic answer is that
10 she wants to complete her process first and she's put
11 together a good team of State Department and USA folks
12 and made it fully reflective across government. They're
13 just not there yet. This is being run out of the
14 Secretary's office, and so there was a lot -- there was
15 a steep learning curve coming up. And then I think that
16 there's this bureaucratic thing that goes on between the
17 executive branch and Congress as to who's got the better
18 idea. So, you know, but it's something that Secretary
19 Clinton had said early on that she wanted to make food
20 security a legacy of her tenure at the State Department,
21 and I think that once they get to the point where they
22 feel comfortable of the direction that they want to go
23 in, I see us partnering up. We just would rather that
24 partnering occur sooner rather than later because we
25 really want to get the ball rolling.

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1 MS. MURANO: What's your prediction if you had
2 a crystal ball as to how this bill, whether, you know,
3 conference with McCollum's -- as far as timing?

4 MS. VEILLETTE: It really depends on if we can
5 get it the Floor on its own and getting to the Senate
6 Floor is always problematic, so you have to have
7 overwhelming support, almost unanimous, to get a stand
8 alone bill to the Senate Floor, and you also need the
9 White House to tell the leadership that this is a
10 priority for them, and that's what we don't have yet.
11 So the other possible route is to hook it onto a train
12 that's already leaving the station, and that is often
13 the way that it happens, and so that's why I can't -- my
14 crystal ball is totally cloudy because I'm not quite
15 sure what that vehicle is going to be or if we're going
16 to get a turnaround from the White House and they call
17 Senator Reed's office and say bring this to the Floor.

18 MR. DELAUDER: I assume that the board that's
19 referenced in the document is to replace BIFAD?

20 MS. VEILLETTE: Uh-huh.

21 MR. DELAUDER: Okay. Does it give it a more
22 narrow focus than BIFAD now has?

23 MS. VEILLETTE: I don't believe so. When we
24 created the HECTARE program, we created a HECTARE board
25 to oversee it, and then realized in the first iteration

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1 of the bill that we actually had two boards and that
2 they were redundant, and so we just folded -- basically
3 we folded the HECTARE program into the BIFAD structure
4 but then renamed it HECTARE because we just like HECTARE
5 better than BIFAD.

6 MS. BERTINI: Thanks. First, I want, Connie,
7 to join Kerry in thanking you for everything you've done
8 and also all of us are so pleased with Senator Lugar's
9 continuing leadership, so thank you both. Two things.
10 One is you mentioned the co-sponsors so far. Is there
11 anything people in this room can do in terms of
12 encouraging others to join? And, second, in terms of
13 opposition you mentioned GMO concerns. Are there any
14 others, and, more specifically, how nervous are the food
15 aid people? Are they pretty okay with it? The panel
16 just before you, there was a comment from InterAction
17 that we were kind of suggesting we had been doing food
18 aid before at the expense of long-term agriculture
19 development. I just want to be on the record, I don't
20 think that's true. I think we've been doing food aid
21 and not thinking about long-term agriculture
22 development, and I think both can and should exist
23 together. We should just lead with agriculture
24 development, and I think that's probably where Senator
25 Lugar is, but could you just give us all some language

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1 about that that would be useful?

2 MS. VEILLETTE: Okay. Great. To the first
3 question on co-sponsors, we just want to run the numbers
4 up because the more we have the easier it is to go to
5 leadership and say, look, we've got support that we need
6 to bring this bill to the Floor. We're very happy that
7 we have 11 right now but I'd really like to double it.
8 On the food aid versus ag development issue or
9 development assistance issue, we've always portrayed the
10 bill as not taking away from food aid whatsoever. And I
11 mean as much as I'd like to say that I'd love to live in
12 a world where you don't need food aid. We're always
13 going to -- there's going to be some natural disaster.
14 There's going to be some man-made disaster. There's
15 always going to be a place for food aid. But what we
16 were hoping to do by ramping up development assistance
17 for rural development was to get to a point where this
18 all becomes a little bit more predictable and that
19 there's more funds available for NGOs and PBOs and
20 cooperatives through a regular and more standard stream
21 of funding so I think the bottom line is we do not see a
22 diminution in food aid at all and I don't even think the
23 number is going down. We do like the fact -- where
24 we're not waiting for supplemental food money to figure
25 it out up front based on previous needs so it's a more

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1 realistic request that goes in at the beginning of the
2 year. We think that that makes everyone feel a little
3 bit more comfortable, and it doesn't get us into a
4 situation where in order to respond to a crisis we have
5 for supplemental funding and that just slows down the
6 process completely, and it's not helpful to anyone.

7 THE CHAIRMAN: We're now upon the time of
8 public comment, and given the importance of this
9 particular issue, I'd like to ask if there are any
10 questions or comments from the audience. Anyone wish to
11 speak about this? Yes, Brian.

12 MR. GREENBERG: Just very quickly. The word
13 that I would use to describe the relationship between
14 food aid and long-term ag development was rebalance and
15 assuming that there are greater resources from both that
16 isn't in any sense a suggestion that we're not going to
17 do both and that food aid should in any sense -- long-
18 term development. We certainly are going to need both.
19 The question is how do we strategize those together in a
20 more coordinated way. So that was certainly my
21 intention. I don't think given the ratios -- for food
22 aid that anyone expects that to go away any time in the
23 near future. In fact, the unfortunate reality is that
24 the number of hungry people in the world has grown and
25 disasters and so forth the need for food aid in the

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1 future is assured and InterAction certainly supports
2 that. We also support a strong role in ag development.
3 So thank you for pointing that out, but I just wanted to
4 clarify.

5 MS. BERTINI: I'm glad you did clarify it because
6 after you talked about rebalancing -- I took notes, so
7 after you talked about rebalancing food aid back with
8 agriculture development you said we have done food aid
9 at the expense of long-term agriculture development.
10 And that, A, is not true, and, B, I think the food aid
11 community or some people in the food aid community are
12 concerned, and so I think we should be really careful
13 about how we use the language as I just stated before,
14 so that's -- thank you.

15 THE CHAIRMAN: Good comment. Any other
16 comments? Thank you so much for coming over and
17 spending time with us, and good luck. We're interested,
18 very, as you see, with the success of this. We do have
19 time now for public comment that was announced, and I
20 think, Dr. Williams, you had asked for an opportunity to
21 say something. Is it at this point or there's -- later
22 in the afternoon? Okay. Great. Any other public
23 comments? Dr. Senykoff, are you aware of anyone who
24 wanted to make a statement at this point?

25 MR. SENYKOFF: Can we take a break?

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1 today, the overall topic, USAID's Agricultural
2 Development Plan for Afghanistan: Observations on
3 Sustainability. The first topic comes to us from my
4 colleague across the state line from Purdue University,
5 Associate Dean and Director, International Programs in
6 Agriculture, Jess Lowenberg-DeBoer. Jess, welcome.

7 MR. LOWENBERG-DEBOER: Thank you, Bob, and
8 thank you to BIFAD for this opportunity to talk a little
9 bit about some observations that we developed over our
10 approximately seven year involvement in Afghanistan.
11 Just a couple of weeks after the fall of the Taliban a
12 couple of Purdue faculty members went to Kabul to help
13 them re-establish their universities, and we've been
14 there in one way or the other since. What I'd like to
15 do in a few minutes today is to give a very brief
16 overview of land grant university involvement in
17 Afghanistan to provide a few observations on some
18 principles we might think about in terms of land grant
19 university involvement, and then talk a little bit about
20 characteristics of the land grant involvement that would
21 really help sustainable development in that country. So
22 if we think about some key land grant university efforts
23 in Afghanistan currently there's the Advancing Afghan
24 Agriculture Alliance, A-4, which is led by Purdue. It
25 includes UC Davis, Cornell, Kansas State, and a number

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1 of NGO partners. There's the Afghanistan Water,
2 Agriculture, and Technology Transfer program, AWATT, led
3 by New Mexico State with Colorado State and Southern
4 Illinois as partners. There's the PEACE program,
5 Pastoral Engagement, Adaptation and Capacity Enhancement
6 UC Davis and Texas A&M under the global livestock CRSP
7 umbrella. And I included on the bullet on the bottom
8 the Saffron work by Washington State University which is
9 finished now but indicates an interest in ability by
10 Washington State to be involved there. There's been
11 some other work, non-agricultural work, by land grant
12 universities. For instance, Kansas State has a major
13 effort there funded by World Bank in engineering in
14 English, and there's been a number of other universities
15 involved in other areas particularly universities
16 involved in other areas, particularly the University of
17 Massachusetts and Indiana University involved in
18 education. If we think a little bit about the Purdue
19 involvement there, the A-4 program, right now we have 46
20 students doing Master's degrees in India with PL-480
21 money. They are mainly in Bangalor [ph], mainly at the
22 University of Agricultural Sciences. We have 12
23 students at Purdue doing Master's degrees, two in
24 education, ten in various agricultural disciplines.
25 There's one veterinary medicine student at Kansas State

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1 University from Kabul University. We have 13 Master's
2 students that have completed their degrees and are back
3 at their universities in Afghanistan involved in
4 teaching and the other activities of the university, so
5 we think that that's a really good sign that it is
6 possible to get these students through the system in a
7 timely manner. We've had a program with USDA for ag
8 service funding for the last four years of faculty
9 members from universities in Afghanistan as visiting
10 scholars at Purdue. We've had seven of them and three
11 more are coming this fall, and that's been a very
12 successful program in raising the profile of Afghanistan
13 and the work of Afghanistan on the Purdue campus, so as
14 you might imagine not all faculty members are ready or
15 able to go to Afghanistan but having those visiting
16 scholars there has been very important in helping
17 faculty broadly in agriculture at Purdue understand
18 what's going on in Afghanistan. And then short-term
19 training. We've been involved in a substantial amount
20 of that both for the universities and for the Ministry
21 of Agriculture Irrigation and Livestock in the U.S., in
22 Afghanistan, in Dubai, in Syria, in Thailand with a
23 variety of funding sources. On campus or in Afghanistan
24 our activities have focused mostly on co-curricular
25 activities, student internships, curriculum development.

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1 The co-curricular activities particularly have focused
2 on the development of university farms so university
3 education in Afghanistan has been very abstract. It was
4 entirely possible for a student to get a degree without
5 ever touching a plant or an animal and the student farms
6 in Kabul and Barot [ph] have helped change that. We've
7 also been involved with curriculum development for
8 agricultural high schools, and this is through Mercy
9 Corps with some funding from BIFIT [ph], from the UK,
10 and also we've been heavily involved with providing
11 training and some reach back for National Guard troops
12 in areas of Afghanistan that we don't normally go to.
13 We started out doing this for the Indiana guard and when
14 some of the other guard units found out what we could
15 offer, they asked if they could also come to campus and
16 have some of that training, so we've provided training
17 now for Kansas, Texas, Tennessee, and the South Carolina
18 guard I think is coming in August. And so that provides
19 us with some important links on those PRT activities.
20 Some observations, and the first one there is one that
21 should be obvious but I think it's important to mention
22 since we've come through a period when there's been --
23 it seems like there's been a continual search for quick
24 fixes, and I don't really think there is a quick fix.
25 This is a very ill patient and medical analogy, we're

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1 not going to provide that healing very quickly. And the
2 second point is I'm convinced, and this comes from years
3 of experience not only in Afghanistan but also in Africa
4 and elsewhere that in the end it will be the Afghans
5 that come up with the solutions that figure out how to
6 use what the science and technology and other knowledge
7 from the rest of the world and how to adapt that to
8 their setting. And so that means one of the most
9 important things that we can do is to provide them with
10 the skills and experiences and help them build the
11 institutions, the higher education and research and
12 extension institutions that will help them find those
13 solutions. I think the single most effective thing
14 certainly that we do and that I've seen are good quality
15 Master's degrees, that this provides people with Afghans
16 with some very basic knowledge that can help them and
17 help their country find those solutions. Clearly,
18 there's also a need for short-term training that will
19 help the universities, the ministry provide some of
20 those quick responses and also lays the groundwork for
21 future development so that when students with newly
22 minted Master's degrees start coming back from Indian
23 and from the U.S. that they come into a system that is
24 more functional than it is now and is ready to receive
25 their input. One of the ways that I kind of work

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1 through this process is to think -- and superficially
2 there's a lot of similarities so they're both very poor
3 countries. They're hot, dry arid places strongly
4 Islamic culture, very undeveloped human capital, a
5 history of ethnic conflict. But when you think about it
6 a bit more the differences are perhaps even more
7 striking so that there are weak but functional
8 agricultural institutions, so that Adu Mumuni [ph]
9 University in Niame [ph] is by no means a strong
10 university but compared to any university in Afghanistan
11 it's a functional institution. Inran, the Nigerian
12 institute for agricultural research, again is a
13 functional institute certainly for adaptive research and
14 finding solutions, adapting solutions to their country.
15 The Nigerian extension service in the Ministry of
16 Agriculture has some very good people, last year had
17 activities through the extension service in about 5,000
18 villages in Niger through our Gates Foundation program,
19 and we found them to be very good partners. Niger has a
20 cadre of western trained professionals who can serve in
21 a sense as an intermediary between western type
22 knowledge and what's needed in their countries. And
23 maybe more fundamentally if Niger has products to export
24 they can get them out. Historically, they sold a lot of
25 protein products, cowpeas and livestock to Nigeria, off

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1 season agricultural horticultural products, onions and
2 peppers and so on to coastal countries and exports to
3 other parts of the world agriculturally or other mainly
4 go through the ports in Lomay [ph] and Kortinan [ph].
5 The Afghanistan reality is that you have non-functional
6 agricultural institutions so that you have universities
7 that overall don't provide even what we would expect
8 students with a good high school education to know.
9 I'll give you just one example. One of the big problems
10 that we've had in getting the TOFAL [ph] levels up on
11 Afghan students coming to the U.S. has been reading.
12 Every foreign student that I've ever worked with always
13 the problem has been in speaking and listening. That's
14 always the last to come. Now with the Afghan students.
15 And our hypothesis is that it's because they don't
16 really read very well in their own language. Learning
17 to read in English is learning to read and being able to
18 understand it and respond to questions and so on and so
19 forth. And that means this is a very different problem
20 than it is with African students who at least from the
21 francophone countries which we at Purdue have many years
22 of experience with have a pretty good basic education.
23 They've mastered a European language. They often have
24 better mathematical skills than our American students
25 because you can teach some pretty high level math with

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1 just a chalkboard. But the Afghan case is quite
2 different. There are very few western trained Afghan
3 agricultural professionals. The ones that were trained
4 before the Soviet invasion, many of them are, if they're
5 still alive, are retired. Many of them were forced into
6 other areas of the economy in exile and their children
7 or those who came very young are of course of Afghan
8 origin but they've assimilated into the places where
9 they are, in the U.S., in Canada and Germany and
10 culturally it just hasn't worked very well. There's
11 relatively few Afghans who were in exile in the west who
12 have gone back to Afghanistan and worked effectively,
13 and again in contrast to Niger Afghanistan has few
14 exportable ag products and it's very difficult to export
15 them. Logically they would export them through
16 Pakistan, and that doesn't work very well at all. It
17 works only slightly better through Iran. Legal products
18 yeah, short-term training issues, there's issues about
19 who participates and particularly in the ministry
20 there's relatively few ministry staff who have the
21 background to really use the kind of training that has
22 been offered. There are issues of language. And,
23 again, it's improving but the English skills of most
24 ministry and indeed university faculty are not that
25 good, what's the motivation for participating beyond

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1 getting per diem and the status that comes along with
2 some sort of foreign training. Because of the
3 leadership, and this is again in contrast to Niger where
4 the leadership in the extension service is looking for
5 effective programs that they can bring to people that
6 kind of leadership is lacking in Afghanistan and then
7 the trainers. Very few U.S. land grant university
8 faculty have the right kind of experience to be able to
9 offer effective short-term training in Afghanistan. The
10 faculty with other development experience in other parts
11 of the world tend to ramp up fairly quickly but it's
12 very difficult for someone who has limited development
13 country experience to address effectively quickly the
14 kinds of problems the Afghans face. Long-term training
15 needs, again I'll emphasize this need for Master's
16 degrees, and one of the problems we've run into is that
17 culturally there are expectations that when someone has
18 a Ph.D that they may not want to or it be appropriate
19 for them to get their hands dirty to be very active in
20 classroom training. They are expected to have some sort
21 of higher level involvement and that may not be what's
22 needed right now. The estimate that my staff came up
23 with is that roughly we need 30 to 40 Master's degree
24 graduates a year to staff, the 17 or so Afghan
25 universities that offer some sort of agricultural

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1 training. Remedial work is needed for most of those
2 students so we have some very bright Afghan students at
3 Purdue and they had two semesters of remedial work to
4 get them ready to start on a Master's program. Those
5 students -- the best students will do thesis Master's.
6 Professional Master's is an option, a non-thesis option,
7 for some of the others. Thesis research in Afghanistan
8 would be the ideal but visa problems, security problems,
9 funding for that has made that a difficult idea. One of
10 the questions that Kerry and Ron brought up was this
11 question of Afghan Pakistan university linkages, and I
12 think the first thing you have to recognize when talking
13 about that is the baggage that comes with that. Many
14 Afghans blame Pakistan for the problems that have
15 occurred in Afghanistan over the last 30 years. Most
16 non-Pushtu [ph], and that's about 65 percent of Afghans
17 -- Pushtu Afghans have bad memories of ill treatment
18 when they were refugees in Pakistan and so most Afghan
19 students would strongly prefer -- number one, they would
20 prefer training in the U.S. but if that's not available
21 India is a good second best, that we find many students
22 eager for training in India. The government of India
23 has been very anxious to help us clear the path for
24 those students and the Indian reputation for bureaucracy
25 is well deserved, but with some help it's possible to

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1 get through them. One of the ideas for developing
2 university linkages that would link Afghans and
3 Pakistani faculty members would be a three-way sort of a
4 partnership which would allow them to develop a
5 relationship somewhere in the U.S. so you might imagine
6 in some area an Afghan faculty member, a faculty member
7 from Pakistan might spend say a semester or six months
8 on a campus in the U.S. working with a U.S. faculty
9 member on something and then be able to go back with
10 some sort of relationship established with a little bit
11 of funding for some sort of ongoing work and that would
12 be a beginning, developing some of those personal
13 relationships that would overcome some of the animosity
14 that is there. Essential characteristics for U.S.
15 universities that want to be involved in the development
16 of Afghan agriculture, things that I would list would be
17 -- I think they have to be ready, those universities
18 have to be ready for a long-term commitment. Like I
19 said, there are no short-term fixes, and what we're
20 talking about are 10 to 20-year involvements, and this
21 is similar to what happened in other parts of the world
22 that Purdue was involved from the mid-50s through the
23 mid-70s in Brazil. Purdue started in Niger in 1982 and
24 we've been heavily involved there ever since. So it's a
25 long-term commitment. I think faculty involvement is

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1 essential. That's the unique aspects that universities
2 bring to this effort. Universities are not very good at
3 being consulting firms. It's not our core competency
4 but when we can get faculty members involved and their
5 long-term commitment and their motivation and their
6 ideas, and I think that involves also some faculty
7 members who are willing to go to Afghanistan at least
8 for short-term duty, and especially active, full time
9 faculty members. Emeritus faculty are great. Adjunct
10 faculty are great and they're involved in our program as
11 well. But for both sides, for the Afghans and for the
12 sending university, to develop that synergy you really
13 need those active faculty members. And then there's a
14 larger group of faculty back on campus who can help with
15 visiting scholars, with advising students, and so on. I
16 think it's important that any university who is
17 interested in being involved look very carefully at
18 their capacity to manage projects in a post-conflict
19 country, and do they have the administrative support,
20 and I would suggest to any of them that they get their
21 provost and their dean and their president on board
22 because inevitably there will be issues around risk
23 management, around banking that will need to be solved
24 and it will need the highest level signature that you
25 have at your university. And I think it's important

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1 that those universities who become involved are
2 committed to helping build commercial agriculture in
3 Afghanistan. In Afghanistan like every part of the
4 world subsistence farmers don't want to be subsistence
5 farmers. They all want some of the good things that
6 money can buy. Helping them find a way to earn some of
7 that money is key. And so a vision that I would present
8 for what our involvement would be in Afghan agriculture
9 and what Afghan agriculture would look in 20 years would
10 be an Afghan agriculture that provides most of the food
11 for the population and has a growing specialty crop and
12 livestock exports that Afghan higher education provides
13 solid Bachelor's degree training for probably upper
14 level government staff, for new university hires, and
15 for what we hope by that time is a growing agri business
16 sector. We hope that by that time some of the 17 Afghan
17 universities that offer agricultural training will have
18 decided to focus on maybe the first two years of
19 technical training and that be a very solid appropriate
20 role for them, particularly in the training of extension
21 staff where there's a real need for that and a number of
22 African countries have institutions like that. And,
23 lastly, I hope that like the case of Purdue, like the
24 case of Brazil and Niger that those institutions are
25 then at a point where they are our colleagues in

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1 research, in education, in outreach, and that we
2 continue to interact with them but on a collegial basis.
3 So thank you very much, and I don't know, are there
4 questions now or they're after Tag?

5 THE CHAIRMAN: Let's let our official respond
6 and make comments and then we'll open up the
7 conversation.

8 MR. LOWENBERG-DEBOER: Okay.

9 THE CHAIRMAN: Tag Demment has been identified
10 as the person who will respond, and, Tag, I'm sure you
11 have some things, the University of California/Davis,
12 Director of the Global Livestock CRSP.

13 MR. DEMMENT: Thank you. Thank you to BIFAD
14 for inviting me. I surprisingly agree with a lot of
15 what Jess said. I'll just make some comments from my
16 perspective. We have a project called the Peace
17 Project, amply enough, that works with the Kuchi who are
18 the herders who are really transhumanist in many parts
19 of Afghanistan, and we work in 14 provinces that we have
20 a team of Americans and we work closely with Mercy
21 Corps. Our partner in this is Texas A&M. And we've
22 done, I think, a considerable amount of work in the
23 provinces, so we have a sense of what's going on out
24 there. First of all, I guess I would kind of magnify a
25 little bit what Jess said about universities. I think

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1 that universities should in international development
2 and in Afghanistan do what we do best. We educate, we
3 do research, both technical and actually social science.
4 Brian, I think, has left. I was going to make a little
5 jab at Brian on that. And we extend knowledge, and
6 those are the things we do best. We're not NGOs. We're
7 not, in fact, implementers. One of the great challenges
8 I see in development is how you integrate the knowledge
9 that we generate from universities or technologies and
10 make sure that there's a smooth flow of those into the
11 development community, and that's one of the great
12 challenges, I think, that faces us not only in
13 Afghanistan but everywhere. One of the things you find
14 when you go out and sit with a shura or something in
15 Afghanistan and you talk to some of the leaders the
16 government doesn't get very much credit for anything,
17 and a weak government in Afghanistan I think is one of
18 the major issues. Oh, it's the NGO or it's the donor
19 who's supplying this. It's not perceived as being the
20 government. So one of the things that I think we need
21 to do more generally but we need to do specifically as
22 university partners is we need to strengthen the
23 government's presence in the rural areas, and we can do
24 that by or engagement with the ministries in such a way
25 that when we go forward and do good things it's not

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1 perceived as the University of California/Davis. It's
2 perceived as the Afghan government. And in the end, I
3 mean if we don't have a strong government in Afghanistan
4 we're not going to have any progress. I fully agree
5 with Jess. One of the things that has been absent
6 obviously over the last couple of decades is the fact
7 that USAID has gone away from and the U.S. government
8 has gone away from the building of human capacity in the
9 long-term sense. Part of what you could lay at the feet
10 of the food crisis is the absence of a whole new
11 generation of scientists and agriculturists who are
12 doing work and generating new technologies, new
13 varieties in the food area. And one of the most
14 critical absences, at least in my experience across now,
15 I admit, 40 years of development, is the absence of
16 those individuals. I was in Morocco ten years ago doing
17 some review for IFAD and walked into the office of the
18 head of the agricultural institute there, and I was
19 shocked to see this thing that looked like a golden
20 gopher on the shelf. Well, he had been trained --
21 here's a francophone country. He had been trained at
22 the University of Minnesota along with about 200 other
23 Master's or Ph.D folks. And you look at Morocco. You
24 look at the medicine campus in Morocco. It's world
25 class. We built that scientific capacity in Morocco.

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1 It was a tremendous effort. And there was a thing
2 called the Atlas program. I'm sure you all are familiar
3 with that, but USAID actually commissioned a review of
4 the Atlas program, and in that review they compared the
5 impact of short and long-term training. Now we do a lot
6 of short-term training. Everybody does. But the long-
7 term training, what they said was a couple of long-term
8 trainees were equal to literally thousands of short-term
9 trainees, that the impact over a lifetime was huge. So
10 one of the things that Jess called for was training at
11 the Master's level, and I agree with that, but as a
12 person in higher education, I think we get in real
13 problems with education systems when we begin to segment
14 them. We segmented basic education and supported that.
15 That's very important. But then we didn't support
16 higher education and now we've got a crisis in higher
17 education in many countries of the world. So my feeling
18 is that what you want to do is you want to have a
19 diverse portfolio on the educational front, that you
20 train people in the Master's but you also train them to
21 the Ph.D level. If we had started in Afghanistan seven
22 years ago training people, we'd have a number of people
23 who would be ready to do Ph.Ds now. And as long as we
24 postpone a commitment to building human capacity we're
25 going to be in a position where we don't have the

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1 leadership that's necessary to strengthen the government
2 and institutions that in the end are going to sustain
3 peace in Afghanistan and economic growth. So I once was
4 talking to a fellow who said to me don't talk to me
5 about higher education, we don't do higher education,
6 and I said -- this was about central Asia in our program
7 in Kasikstan [ph]. And I said, okay, I won't talk to
8 you about that. He said I just want to emphasize we
9 don't do anything in higher education. Well, after 45
10 minutes the conversation got a little bit better and
11 finally we were talking about the problems of Kasikstan,
12 and he said, well, in the end the real problem is the
13 leadership doesn't have any vision. Well, I didn't say
14 anything more. And that's one of the reasons why I
15 think it's very important although perhaps more costly
16 to make sure that some sizable portion of who we train
17 is trained in the United States. Now I don't think that
18 the U.S. has all the answers to life for sure, but we
19 certainly have some answers, and I think the experience
20 of experiencing another culture and seeing how we do
21 business elevates the quality of what people do in their
22 lives when they return to their countries. So I think
23 an investment, not all of the students, but some of
24 those students, some of the very best, should come here
25 as well. The other thing I would like to do, and this

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1 comes in large part from my CRSP experience, is that I
2 think that we should design programs that not only solve
3 problems or attempt to solve problems but at the same
4 time they're trying to solve the problems they're
5 building the human capacity, so if we're going to do
6 work in agriculture, if you're going to work on
7 livestock or you're going to work on horticulture that
8 we then train those Master's students as best we can by
9 doing their research within their own countries. Now I
10 know the security situation in Afghanistan is difficult,
11 but we work with Mercy Corps and Mercy Corps had very
12 good on the ground information about where it's secure
13 and where it's not on a day-to-day basis. And so far we
14 get in our old pickup trucks and we drive out there in
15 the countryside and we've been okay. It's not a risk-
16 free environment for sure although I would have to say
17 that the homicide rate in some of our American cities is
18 higher than Kabul, so it just puts it into perspective a
19 little bit. I think, you know, Afghanistan has a
20 fairly, I think, decent national plan for agricultural
21 development. It exists. I think we should follow it as
22 outsiders. We should take the lead from them. We
23 should work with them perhaps to refine it but that plan
24 does exist and we should be sensitive to it, and we
25 should -- I think it's reasonable. I would have to say

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1 in a little disagreement with Jess that at least the
2 discussion that while there's 17 universities in
3 Afghanistan that do do agriculture, I would think that
4 we need to think about the possibility of building a
5 center -- focusing our resources so that we have a
6 university that -- at least one university that's of
7 very high quality. If you look at what it takes to
8 build a university of high quality, you have to focus
9 resources. You have to have a sufficient number of
10 faculty. You have to have a sufficient number of high
11 quality students, and you have to have a curriculum
12 that's excellent, and that university then can in a
13 sense extend its quality to upgrade other institutions.
14 And then, finally, I would say that if we're going to do
15 something in higher education extension and agricultural
16 research in Afghanistan that it should be a coordinated
17 university led effort and that it should not be a whole
18 series of small patchwork projects that are very
19 difficult to coordinate between institutions. Thank
20 you.

21 THE CHAIRMAN: Thanks, Dr. Demment. Any
22 questions for either speaker from the Board or comments?
23 Dr. DeLauder.

24 MR. DELAUDER: I just want to commend Jess for
25 a comprehensive overview of what is going on in

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1 Afghanistan as it relates to higher education. But I
2 wanted to support Tag's observation that if we're
3 talking about building strong universities in
4 Afghanistan in the long run, I can understand the
5 importance of Master's training to get to some short-
6 term issues but in the long term if we're talking about
7 building strong universities that have their own
8 research capabilities that will allow them to train
9 their own people at an advanced level, you have to
10 include Ph.D training. And I would hope that in the
11 model that's being used even though maybe you're doing
12 more now at the Master's level that you would start to
13 add to that Ph.D training. Otherwise, we're not going
14 to create the kind of institutions that we desire to
15 create.

16 THE CHAIRMAN: A very good comment. Dr.
17 Bertini.

18 MS. BERTINI: Thanks for the promotion. Jess,
19 I wanted to come back to Jess and ask about
20 coordination. It was one of Tag's last points, but I
21 wondered if you could talk about what, if anything, goes
22 on in terms of the coordination of the universities that
23 work in Afghanistan, what, if anything, goes on with
24 coordination with USAID, with USDA, and ultimately with
25 the big elephant in the room, the military. I don't

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1 mean this room. I mean Afghanistan.

2 THE CHAIRMAN: I think it was directed at you,
3 Tag, perhaps or Jess.

4 MS. BERTINI: No, it's for Jess.

5 MR. LOWENBERG-DEBOER: I think one of the
6 first things to recognize in terms of coordination, and
7 I would agree with Tag that that would be the ideal, one
8 of the first things to recognize is that in the current
9 Afghan constitution extension is the responsibility of
10 the Ministry of Agriculture, and there's a lot of turf
11 there and they jealously guard that. Early on there
12 were some initiatives, particularly under Secretary
13 Mosley, to try and give universities more responsibility
14 for extension and that ran into a brick wall. So we've
15 been looking for better ways to link those up there.
16 There's a continual back and forth flow between the
17 university and the ministry so faculty members have
18 occupied important positions in the Ministry of
19 Agriculture over time, and so that relationship is good
20 but that's going to take, and this is true of lots of
21 other countries, it's not just in Afghanistan, that our
22 system where higher education, research and extension
23 are in a single unit other than India, I don't know of
24 any place else in the world where that works
25 particularly well, and so Afghanistan is one of them and

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1 that's going to have to be involved. USAID, of course,
2 has been deeply involved. Most of the core funding of
3 the projects that I listed earlier, A-4, the AWATT, the
4 PEACE project comes through USAID. The funding for the
5 Afghan students that are on campus actually comes
6 through a completely different program, not through A-4,
7 and there's been that issue of whether USAID is
8 interested in long-term capacity building, the debate
9 that we've had over the last 20 years or so. In terms
10 of coordination between Afghan universities and the
11 PRTs, we have tried to facilitate contacts between the
12 PRTs that we're involved with and the Afghan
13 universities. There is a university, a small one, in
14 Khost province, which is where the Indiana Guard is
15 there. Some of the students we have in India are from
16 that university, and we've tried to establish linkages
17 but, you know, this is at a very embryonic stage and we
18 hope that it can be stronger in the future. So I hope
19 that responded at least a little bit to your question.

20 THE CHAIRMAN: I think we'll move on to stay
21 on schedule. Our next speaker, Major Steve Wood, comes
22 to us from an organization that only the Pentagon can
23 name. Let me see if I can get this. Joint Improvised
24 Explosive Device Defeat Organization, is that correct?
25 And his topic here is to speak about what Jess just

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1 introduced to us, Civilian-Military Collaboration in a
2 Conflict Zone. He comes to us with experiences and
3 qualified very well to speak to that topic. Major Wood.

4 MR. WOOD: I just wanted to say that I'm
5 really honored to come here and speak to this forum. I
6 grew up on a dairy farm so the stuff that you guys do, I
7 appreciate and I think it's outstanding. What I'm going
8 to talk to you today about is actually about a choice
9 and an opportunity. I represent the Joint IED Defeat
10 Organization. Roadside bombs in Iraq and Afghanistan,
11 currently in Afghanistan roadside bombs are responsible
12 for 80 percent of the casualties, KIAs that we're having
13 overseas, and it's even worse for the British right now.
14 This organization was developed in 2006. It was formed
15 out of an Army task force in 2004 when the insurgency
16 started to kick off in Iraq. The Army vice chief of
17 staff said, hey, we need a national Manhattan Project
18 like organization to fight this IED. So what has
19 resulted is a joint organization that covers all four
20 services and the way that this has expanded from just
21 Iraq and Afghanistan is that we started to look at this
22 globally. We're a counter insurgency type of
23 organization and if you look at the current insurgency
24 whether you want to call it an Islamic insurgency or
25 something else, I would say it's almost something else.

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1 And this is an unfortunate title because this is the way
2 it's being presented in the Pentagon right now. We're
3 in an era of persistent conflict. Well, as a soldier, I
4 don't like the idea of a era of persistent conflict
5 because it means that I'll always be gone going to these
6 wonderful countries so I'm looking -- in the position
7 that I have right now, I have the opportunity to look
8 outside of conventional solutions to try to stop these
9 things from happening. And if you look at the problems
10 on the left-hand side of the blue globe all these things
11 that are occurring demographics, especially resources,
12 lack of water are leading to the black or reddish globe
13 on the right were you have criminal environments,
14 resource wars, which creates terrorist recruitment out
15 of dissatisfied populations humanitarian crisis. All
16 these things are leading to persistent conflict. When
17 our organization was established, it was established to
18 provide more armor, if you guys remember that, more
19 armor on humvees, flack vests for soldiers, that kind of
20 thing. We were developed as an antibody to the
21 Department of Defense acquisition system which typically
22 takes between three and ten years to send something to
23 the field. What we do is we get something to the field
24 between two weeks and two years depending on how
25 complicated that issue is. We looked at the problem set

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1 that we presented with and we did a lot of engineering
2 solutions, a lot of defeat the device protective type
3 ways of defeating this particular threat. We've done a
4 lot of the easy stuff. Now we're delving into the deep
5 physics projects and if you know any engineers that want
6 to help with this or physicists it would be great. You
7 know, finding a command wire while you're moving down
8 the road at 40 kilometers an hour buried underneath two
9 inches of dirt, those kind of problems are what we're
10 looking at right now. That is the defeat the device
11 aspect of our organization. As we started to evolve
12 under now retired General Meggs [ph] was is a professor
13 at Georgetown now, he looked at something called Attack
14 the Network. We're a staff acquisition agency really.
15 We don't attack anybody. We don't do any kinetic
16 operations but what we do do is we try to -- we
17 determine that it takes a lot of people to put that
18 little bomb out there. It's not as simple as one guy
19 deciding one day that he's going to go find an artillery
20 shell and he's going to run out to the road, he's going
21 to bury it, and he's going to blow it up. It takes a
22 financier. It takes planning. It takes reconnaissance.
23 It takes a lot of things. And all those people must be
24 recruited. So my choice that I present to people when I
25 give this presentation is do we want to choose to seed

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1 an era of persistent conflict? Are we going to accept
2 this as a given? People fought forever. Since there's
3 been people there have been wars, but we don't have to
4 accept this and we can try to attack these things before
5 they happen. And I'm not talking to you about
6 development. I'm talking to you about stability,
7 strategic stability. And as JIEDDO approaches this
8 problem, we look at it from a whole of nation approach
9 even more than a whole of government approach. And I
10 really appreciate USAID and the things that I've been
11 working on with them. But JIEDDO looks beyond that to
12 universities and private industry as well. Since this
13 seems to be an Afghanistan centric group, I'll just talk
14 to this a little bit. The interesting thing about the X
15 and Y axis here is if I flip back to the Iraq chart it
16 looks like we're doing pretty well. However, this blue
17 dot has just recently been passed by that blue dot so
18 what that means is attacks in Afghanistan are now
19 exceeding attacks in Iraq, and there are a few reasons
20 for that. In addition to Afghanistan this is a global
21 threat and that's why we reach out to places like USAID,
22 State Department, and nongovernmental organizations and
23 universities. The average number of monthly IEDs
24 reported that we know about in open source because is an
25 open source forum, 305 each month in the last six

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1 months. What you're seeing is you're seeing is an
2 incumbent organization. If any of you have read
3 Christensen's theory of disruptive innovation an IED is
4 a disruptive innovation technique. You have an
5 incumbent organization, the United States military.
6 It's kind of like IBO. It's doing really well. And
7 then you have somebody that needs to oppose that so what
8 he's going to do is he's going to go out and he's going
9 to find something really cheap and easy to do, the IED.
10 And what has this caused the United States to do in
11 response? Create JIEDDO, a \$2-1/2 billion a year
12 organization to respond to something which costs them
13 about \$300 -- pay someone \$300 to stick out on the road.
14 Other places we're seeing this and it's becoming more
15 and more prolific, it's proliferating rather rapidly,
16 you can see that a lot of these countries are also
17 countries that are listed on the foreign policy failing
18 state index or failing state index, but the bottom line
19 is if you want to oppose an incumbent political group
20 and you do not have the military power to take it over
21 you will attack in as many means that you can and if
22 you're going to use violence the IED is becoming a
23 weapon of choice across the world unfortunately. So
24 what we're trying to do is we're trying to defeat it as
25 a weapon of strategic influence. Tactically, the IED is

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1 insignificant. You cannot stop an armored column with
2 one bomb. We're still going to go to the objective.
3 We're still going to raid that house. We're still going
4 to do what we need to do. But if you look at the way
5 the insurgents work what they'll do is they'll take the
6 weapon, they'll explode it, they'll film it, they'll
7 download it to the Internet, they'll upload it. People
8 will go the Internet and look at it, and they'll have
9 two audiences, one here in the United States or in Great
10 Britain or Spain, for instance. Spain is a great
11 example of strategic influence. And they'll try to
12 affect the host nation's will to maintain the conflict.
13 The other thing that will happen is they'll show them
14 attacking an iconic American weapons system, for
15 instance, the M1 tank. They blew up an M1 tank. That
16 is a huge victory for them. They'll show one little guy
17 running out there blowing it up and then he'll say his
18 stuff at the end and they'll post it on the internet.
19 It becomes a recruitment tool. So those are the kinds
20 of things we're trying to target as a weapon of
21 strategic influence understanding that we'll never be
22 able to keep every bomb from going off, but we're going
23 to try to mitigate it as much as possible. Why are we
24 unique at the Department of Defense? We have three-year
25 uncolored funding. If you don't know what that means,

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1 it means that we can take the money that we're given by
2 the Department of Defense and by Congress and it's put
3 into a special fund called the Joint IED Defeat Fund.
4 We have three years to spend it and we can spent it on
5 anything we want to as long as it relates to IEDs, and
6 this is where the opportunity comes in. Our boss, a
7 three star general, works directly for the Deputy
8 Secretary of Defense. Three lines of operation, train
9 the force to defeat the device and attack the network.
10 Attack the network, although it sounds very martial is
11 the area that I believe that we can collaborate and we
12 already are collaborating with a lot of universities and
13 a lot of university groups. We will pay for research.
14 We will pay for all kinds of things that universities
15 do. I know you said you don't do consulting but you
16 guys are really smart and we're not so we'll pay for
17 that kind of expertise. So another example to get away
18 from Afghanistan, we'll talk Colombia. A lot of people
19 that use these particular groups will use drug money to
20 fund terrorist activity so Colombia is a great example.
21 The FARC, which uses more IEDs, they're number three in
22 the nation -- in the world right now for IEDs in
23 Colombia. They use it frequently against civilians as
24 well as military targets in Colombia, and they fund
25 their activities and they pay for their explosives with

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1 drugs so from an agricultural perspective I know it's
2 kind of a stretch to think how we can work together, but
3 I believe that there are ways that we can work together
4 and that's why I'm here. IEDs is all we worry about,
5 and we are -- our director will tell you that we are a
6 DOD venture capital organization. We're very well
7 funded, and what we're willing to do is accept risk, so
8 if you have an out of the box idea and you bring it to
9 us, we do have experts that will review that and will
10 say, okay, this has a 75 percent chance of working.
11 Inside the United States government if you tell somebody
12 it has a 75 percent chance of working they're going to
13 throw you out of the office. But inside JIEDDO if it
14 has a 75 percent chance of working and we can tie it to
15 IEDs, we will fund it. We will. We're willing to
16 accept failure, just not too much. Okay. We partner
17 with co-comp around the world. If you think back to the
18 mission statement, which I didn't go into, the bottom
19 line is the way we like to partner with people when we
20 deal with USAID and nongovernmental organizations is
21 we'll go to USAID conferences and we'll say, hey, we got
22 a problem in the Philippines, the Philippines need this,
23 and the NGO will say, hey, we can provide this
24 particular thing to you. We can say that this type of
25 development project will lead to stability against the

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1 mill from the south. Well, we'll go to US PACOM [ph]
2 and we'll coordinate with US PACOM and they'll fund it,
3 and it'll become a supported a co-com initiative. So in
4 terms of DOD theaters of security cooperation that's
5 what we do. A little brag chart. The bottom line is we
6 have physical presence at JIFCOM [ph] here in
7 Washington, D.C., and then we have two field teams
8 deployed forward. Some of the things that we're working
9 on, and again don't feel that you're tied to anything
10 that I present to you here. If you have an idea or one
11 of your peers has an idea on how to defeat IEDs, we're
12 willing to entertain it, and it's very quick for you to
13 go to the JIEDDO web site, look at the application form
14 and fill it out to determine whether you'd be able to
15 fit our needs or not, but we can get your program moving
16 if you really need help. Social dynamic network
17 analysis is something that we're working a huge way with
18 universities right now combining social scientists,
19 physicists and mathematicians to create modeling
20 simulations that will determine if a network -- if an
21 insurgent network becomes active, how do we influence
22 that network so that it's no longer violent. And kind
23 of going on Dr. Mark Sageman's [ph] theory on the
24 network once it becomes active, once you have a street
25 gang on your street corner you're never going to be able

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1 to get rid of that social activity. They're always
2 going to be friends unless you kill of them. We don't
3 want to kill everybody so we want to influence it away
4 from that. How can we determine who are the correct
5 people to put pressure on to move that away from what's
6 going on. Some of the explosive devices that are being
7 used right now, a lot of explosives particularly in Iraq
8 and starting to happen more and more in Afghanistan,
9 homemade explosives. As they go through the military
10 grade ordnance that they've blown up, they've blown it
11 all up or we found it and we destroyed it, they've
12 learned -- and I know that we've had that problem in the
13 United States, they've learned how to make explosives in
14 their back yard, so the use of fertilizers and what's
15 the correct use of fertilizer and what's the wrong
16 fertilizer to show up in the country, those are things
17 that we're also looking for. And one of the real cool
18 things that has to do with the medical that's really
19 cool, we're funding people to re-grow limbs. That's
20 some of the research that we're funding right now, so
21 I'd like to mention that because that's awesome. Real
22 quickly, we have three ways that we get requirements in.
23 We get it from -- operational needs which means life and
24 limb needs to be solved right now. Solutions network,
25 that's what I talked to you about. We have emerging

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1 technologies and gaps. We don't know what we don't
2 know, so if you can think of something or your peers can
3 think of something please approach JIEDDO and let us
4 know. It goes through a review process. An evaluation
5 and proposal is done by usually a military person like
6 myself and we'll bring in experts in your field. We
7 hire consultants that will say whether you are valid or
8 not. And we entertain everybody. The bottom line is it
9 goes up here. If it's under 24 million, if it's
10 \$24,999,000, our director can sign off on it on the
11 spot. If it's 25 million and above it has to go to a
12 senior resource steering group, which is basically the
13 Joint Chief of Staff and the Deputy Secretary of Defense
14 so you can't believe how many initiatives that we get
15 that are exactly \$24,999,000 so they don't have to go
16 forward. We will entertain anybody. We've entertained
17 everybody -- literally we had a guy with a divining rod
18 show up and say that he could detect explosives with
19 this divining rod, and he was making it work. It got to
20 the point where our physicist had him put on a blindfold
21 and do it and they realized that there was a cueing
22 mechanism that he had built into the stick and a little
23 experiment but they wasted a good half a day trying to
24 figure out the divining rod. These are some of the
25 things that we've done so far. That's budget

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1 information. We will give you a hard look. We're not
2 just a cash cow, so if you do have a great idea come to
3 us and we'll talk to you but we'll make sure that it's
4 valid. All right. These are the five focus areas for
5 the director right now. I know I'm standing in between
6 you and lunch, so I appreciate the ten minutes that you
7 gave me. Thank you very much.

8 THE CHAIRMAN: Thank you. We have a question.
9 Yes.

10 MS. BERTINI: Why have the British sustained
11 more casualties?

12 MR. WOOD: As in terms of percentage they
13 sustain a lot of casualties because they do not have the
14 same protective equipment we do and they've made a
15 decision not to chase it the way we have in terms of
16 budget.

17 THE CHAIRMAN: Other questions, comments? Dr.
18 Senykoff, anything before we wrap up this morning, and
19 we'll see you back here at 1:15, I believe it is. So
20 we'll go to lunch.

21 ***

22 [Off the record]

23 [On the record]

24 ***

25 THE CHAIRMAN: First of all, let me thank both the
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1 Board who have an obligation to be here, and those in
2 the audience who perhaps don't, for returning and being
3 part of what I thought this morning was a very
4 productive and engaged conversation, and I look forward
5 to what we have yet to do this afternoon. I think the
6 word of the morning was enthusiasm and exciting. I
7 don't want to carry that too far but it certainly is
8 something that is exciting for us. This afternoon's
9 program continues to grapple with this issue of
10 providing an adequate secure supply of food for the
11 people of the world. It's the mandate of the BIFAD.
12 And certainly we're conscious that day by day the
13 environment in which that is done is changing and its
14 changing environment encompasses not only temperature
15 but it also relates to soils and water and all those
16 things that are part of the environment in which food
17 production takes place. And this afternoon -- I'm
18 already making your presentation for you. This
19 afternoon's program, Agro-Ecological Approaches to
20 Agriculture: Lessons from the System of Rice
21 Intensification. And we have three speakers. Our first
22 speaker is Norman Uphoff, and he told me earlier I would
23 either make him royalty or a farmer depending on how I
24 pronounce that, and I'm not sure what I did, Norm, but
25 congratulations. Our first speaker this afternoon,

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1 Sustainable Rice Intensification, Cornell University
2 Institute for Food and Agriculture Development.

3 MR. UPHOFF: Good afternoon. I'm glad to see
4 as many people here this afternoon. I'll try to give
5 you some antidote to the post-lunch blahs, something
6 that I think will get you very interested in what are
7 the possibilities for agriculture development as we move
8 ahead. And I'm going to talk a little bit about how
9 this relates to issues of climate change. As I
10 understand, a lot of people here in Washington and
11 elsewhere are getting more and more concerned with this.
12 I have two take-home messages I hope you'll agree with.
13 For various objective reasons, the agriculture sector in
14 the 21st Century will need to develop a different
15 strategy from what's known as modern agriculture. This
16 has been very successful in the 20th Century but times
17 are changing. It's the notion that we don't necessarily
18 keep doing more of the same, I hope you'll at least
19 consider. And, secondly, the outlines of what might be
20 called post-modern agriculture are beginning to emerge
21 and evidence is growing for more agro-ecologically
22 informed agriculture. This will not simply replace what
23 we're doing now. That's not the way the world works.
24 Any change will be gradual and based on evidence, but I
25 think we're moving toward a different paradigm for

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1 agriculture that we've worked within the last 40 to 50
2 years. The 21st Century presents some very different
3 conditions from the 20th. First, land per capita will
4 keep declining which makes extensive agriculture
5 production less advantageous economically. Secondly,
6 both water availability and reliability are diminishing
7 so we need to get more proper drop and higher energy
8 costs will probably prevail making large scale
9 mechanized production less competitive and also making
10 long distance trade in agricultural commodities less
11 profitable. Now these are things that are not matters
12 of opinion. At least I don't think they're matters of
13 opinion. These are things that are happening. The
14 estimate of land per capita, area of land per capita
15 will go from 1950 level, only one-third of that by 2050,
16 which means you have to be much more productive with our
17 land and our water and also to be very attentive to
18 energy costs. Further, climate change will affect the
19 agriculture sector more than others. I think we all
20 know that. Global warming will cause significant shifts
21 in production patterns and what we call extreme events,
22 a wonderful euphemism, drought, storms, temperature
23 extremes that are going to become more frequent and more
24 severe and the environmental impacts of agriculture will
25 need to be reduced, less greenhouse emissions, less

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1 nitrogen in the ground water supplies. We can't afford
2 to treat our environment with as much cavaliness as we
3 did in the 20th Century. And modern agriculture as it's
4 developed has certain vulnerabilities, climate change
5 that we should keep in mind, monoculture in large scale
6 units reduces farm resilience. Genetic uniformity also
7 creates vulnerability to large scale losses. When they
8 hit, they hit hard. Capital intensity raises farmer's
9 risks from climate-induced price swings and
10 mechanization and agro-chemical use to degrade soil
11 systems and reduce fertility. Now these may be more
12 debatable, but I put them forward as I think reasonable
13 propositions. Now these may be more debatable but I put
14 them forward as I think reasonable propositions. And
15 also accessibility of technology to the poor remains a
16 great concern because hunger and poverty are still with
17 us and we're nowhere near achieving the development
18 goals for reducing them. So I think about how what we
19 do will actually reach and benefit those persons. So
20 these considerations suggest that we should be involving
21 what might be called post-modern agriculture, which I
22 will suggest would be the most modern agriculture. This
23 isn't going back to dibble sticks. We're trying to move
24 head and draw upon the advances in soil biology, soil
25 ecology, microbial genetics, and even epigenetics. How

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1 many here know the term epigenetics? Unfortunately, not
2 many. I think that's going to be the next -- large
3 advances are going to come in the field of epigenetics
4 which deals with how genetic potentials are expressed.
5 So much of our first generation genetic work has been to
6 understand the genome, and we're mapping it, but we
7 don't have much of a handle of why is it the same DNA in
8 all of our cells becomes eye cell, becomes fingernails
9 and so forth. The expression of that potential is going
10 to be where we have to be going next. And the system of
11 rice intensification I'm going to talk about presents
12 some really wonderful challenges, wonderful
13 opportunities to do -- I want to emphasize what I'm
14 talking about is not going back to a previous way of
15 doing agriculture. It's a way of moving forward,
16 building upon our most recent knowledge. This table is
17 a fascinating one. It's published in a journal, applied
18 in environmental economics, microbiology, and what they
19 were looking at was how soil bacteria, rhizobia,
20 infiltrate and migrate up the roots and the stem into
21 the leaves here of rice plants. They infect the
22 phiosphere [ph], as we say. And it turns out doing
23 controlled experiments with five different strains of
24 rhizobia versus a control with no rhizobia infecting the
25 leaves, everything else the same, you see that the net

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1 photosynthetic rate which was 10.23 micromoles per
2 second is 13, 15, 16, instead of 10. So the plants
3 themselves have a faster photosynthetic rate. The water
4 utilization efficiency is 15 or more percent higher, and
5 the yields for the same area of 50, 77, 64, 61, 86, 86,
6 simply because of the infection of the leaves by soil
7 bacteria. We never knew that before because we never
8 looked, but researchers in China working with Frank
9 Dazza [ph] of Michigan State University, he's one of the
10 co-authors of this paper, have been able to show that
11 it's this integrated view between the bacteria and the
12 flora and the fauna, if I can stretch it, which really
13 is behind the performance of our crops and animals. We
14 need to take the calm effect that the green revolution
15 has been losing momentum. Since the mid-1980's the
16 world's cereal production per capita has plateaued and
17 since the mid-90's has actually been in absolute terms
18 plateaued so there are limits to what we can achieve by
19 making genetic improvements without making improvements
20 in management and especially maintaining and improving
21 soil fertility. This is a table I put together from FAO
22 and USDA figures. This is the grain production total.
23 This is per capita. We still keep saying how these
24 technologies are so potent, and they are potentially but
25 they have not been delivering the last 10 to 20 years as

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1 we'd like to think they have. This is an article by
2 Peter Jennings, who helped develop IR-8 at Erie and the
3 Erie publication Rice Today. The majority view
4 contending that more productive new varieties were
5 needed led to massive investment during the past 25
6 years in biotechnology and genetics and under investment
7 and crop management. Decades of little progress
8 following the adoption of semi-dwarfs indicate a mis-
9 identification of the yield constraints as institutions
10 directed resources inappropriately. Researchers, like
11 generals, often fight new battles with strategies and
12 tactics of previous wars. That's good advice for
13 someone who's at the heart of in fact our genetic
14 revolutions in rice. This is a graph from an article
15 that my colleague, Chris Barrett [ph], wrote with one of
16 his students published in the American Journal of Ag
17 Economics looking at the return to investments and use
18 of nitrogen fertilizer as a function or corresponding
19 with their soil organic carbon. Look at the price of
20 fertilizer in western Kenya. It was done in plots in
21 Western Kenya. Until you get soil organic carbon to
22 about 4 percent it's not even a break even operation.
23 Why don't farmers, all farmers, invest in fertilizer?
24 Until their soil fertility is high enough it doesn't pay
25 to add all that nitrogen, so I think that's a very

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1 important lesson for us. So agro college which you've
2 heard about all this morning, I would summarize there
3 are two ideas. First, enhancing the life in the soil is
4 the critical start in the foundation. Recognizing the
5 precedence of soil biology over soil chemistry and soil
6 physics. They would be fighting words for some of you,
7 but of all the soil chemistry the last 50 years, I'll
8 bet 60, 70 percent of soil chemistry, maybe 30 percent
9 soil physics, but soil biology is a minority. We have
10 to go back and start retracing some of our steps. And,
11 secondly, improving the growing environment of crops to
12 induce more productive feeder types from any given crop
13 gener type. This is a picture from Cuba. I know the
14 farmer. I visited him four times. He's using the same
15 variety, VN2084. These plants are the same age, both 52
16 days after seeding, but this plant was taken out of the
17 nursery when it was nine days old, planted not in a
18 clump but in single plants, a square pattern, wide
19 spacing, good organic matter in the soil, good aeration
20 of the soil. There was 52 tillers. That is 40 tillers,
21 that is 5. Same genotype, but a very different -- he
22 said it yields as high as 14 tons with these SRI methods
23 on his farm in Cuba. This is from Indonesia, Lumbuk
24 [ph], where the plants are the same variety and same
25 age. The farmer obviously prefers the one on the left.

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1 Nippon Koi, a Japanese consulting firm you probably
2 heard about does a lot of work throughout Asia. Their
3 irrigation team oversaw 12,133 trials on farm with a
4 total area of 9,429.1 hectares. Every farmer and
5 monitor reported the average increase in yield was 3.3
6 tons which is 78 percent over their 4.4 average, and
7 that's with 40 percent less water, 50 percent less
8 fertilizer, and 20 percent lower costs of production.
9 Now this probably sounds really fantastic. This is done
10 by people totally independent of me. This is a Nippon
11 Koi team that worked for the Indonesian government doing
12 these trials in a big way in Indonesia. This is from
13 Mali, a farm in the Timbuktu region showing the
14 difference between a normal rice plant and SRI rice
15 plant. In 2007, Africare, I'm so glad Bill Noble is
16 here today, did some first tentative trials and found
17 the SRI methods gave about nine-ton yields compared to
18 6.7 tons using all the best management practices, high
19 yield varieties, fertilizer, et cetera. So they did
20 next year a series of more systematic trials with
21 funding for the Better You Foundation, and this is their
22 results. SRI average was 9.1 tons versus 5.495-1/2
23 using regular control methods, improved methods, and
24 farmer's practice in the adjoining areas where they
25 matched and was 4.86, very substantial difference on the

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1 edge of the Sahara Desert. So the system of rice
2 intensification which I'm talking about was developed in
3 Madagascar in the '80's and it takes these agro-
4 ecological principles, which I would discuss with you,
5 and puts them into work, and these are relevant
6 especially for climate change. This is a picture sent
7 from an AID colleague in Madagascar. The technician
8 measured this field and estimated a 17-ton yield. I
9 can't alter that. But if you look at those panacles,
10 the length, the fullness of all those heads, and they're
11 not lodgy. They're even as tall as the farmers but
12 they're upright and they will be harvested. Sri has six
13 basic ideas. I won't go into them. You change the
14 manner of the plants, the soil, the water, and the
15 nutrients to get a different feener [ph] type, and we
16 find with these methods up to 36 countries now, we can
17 increase the grain yield by 50 to 100 percent, even more
18 farmers at the low end. We reduce the irrigation water
19 requirements by 25 to 50 percent because we don't get
20 the fields flooded, just moist with small applications.
21 The cost of production goes down 10 to 20 percent
22 because you don't have to buy fertilizer or pesticides,
23 insecticides. The milling rate is about 15 percent
24 higher so you have about 15 percent more KG per bushel
25 or per bag because there's less chaff, fewer unfilled

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1 grains, and there's also less breakage during the
2 milling process. There's less need for agro-chemical
3 use because the plants have natural resistance to pests
4 and diseases, and there's less vulnerability to droughts
5 and storms which are going to be more and more of a
6 problem. The International Research Institute has been
7 one of our main partners in evaluating this. Two of
8 their super hybrid varieties and they use what they call
9 standard rice management which is 30 day seedlings, 20 x
10 20 spacing, continuous flooding, and all chemical
11 fertilization versus it's not fully SRI but it's moving
12 that day, 20 day seedlings, 30 x 30 spacing, alternate
13 wetting and drying, and then 50/50 organic, inorganic of
14 the same nutrient applications. And this is where they
15 found by changing plant densities from 150,000 plants
16 per hectare to 180. The standardized management does
17 increase yield a little bit as you increase the plant
18 population. But what these different management
19 practices, the different feener type, and it reduces the
20 population up to 2-1/2 ton difference. We have been
21 wasting seeds. We have been wasting fertilizer and
22 wasting water. So CRNI understands that now. This is a
23 picture from Sri Lanka showing two fields, same soil,
24 same irrigation, same drought, same variety. And the
25 plants on the left have been grown with conventional

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1 methods, flooded continuously so the roots start
2 degenerating after two weeks or so. Then when the water
3 stops, it stopped here three weeks ago, the plants can't
4 survive. With SRI methods, we put small amounts of
5 water so the roots go down. They don't degenerate
6 because they're not hypoxic. Then when the water stops
7 for three weeks they're still growing nicely and
8 normally. I just got last week these translations from
9 China, this report from Sichuan Province, where they
10 found that these methods where you normally get about 4-
11 1/2 ton yields, SRI gives 7.7 to 9-ton yields and even
12 as high as 12 tons. So that's almost a tripling of
13 yield. And the cost of the mulching they add with this
14 as well is like 40 yuan per mu, but they save for
15 weeding, land preparation, fertilizer, irrigation, 230
16 yuan per mu, so the economic returns are very
17 substantial with less water which is important for us.
18 And this is an article by four scientists. Actually the
19 fourth author is the dean of natural resources at China
20 Agricultural University, Jung Vu Sol [ph], but they
21 found in a normal year the yield will go up with SRI
22 methods about 2-1/4, 3 tons. In a drought year it goes
23 up three tons or more, so it actually does better
24 relatively speaking in drought conditions. The net
25 income in a normal year is raised from about \$220 per

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1 hectare to 1,500. Seven times, that's really good. But
2 in the drought year it goes from a loss of 550 to a
3 profit of 880, huge improvement. So in Sichuan now
4 there's very great excitement of what they can do.
5 There's a picture from Vietnam about an hour's drive
6 north of Hanoi coming from the FAOIBM program. This one
7 I'm holding up -- I don't know how well you can see over
8 there, but this is an SRI plant. This is a conventional
9 plant. This is a conventional field, SRI field after a
10 typhoon went over. You see what the typhoon has done of
11 the conventionally grown rice, droughted, flooded, poor
12 root systems, can't stand the storm damage, and they
13 don't grow as well. This little darker color you can
14 see it clearly. This plant is big and healthy and it
15 can resist the storm damage as well. This is data from
16 the Vietnam National IBM program where they did side by
17 side on farm comparisons in eight provinces in 2005-
18 2006, and they took the two leading diseases and pests
19 and the average reduction in the SRI plots compared to
20 the adjoining farmer plots was 55 percent in the spring
21 season and 70 percent in the summer. These plants don't
22 need the kind of chemical protection which we've been
23 giving them. This is sort of an accidental finding.
24 Researchers at the Agricultural State University in
25 Hondrobadesh [ph] where IBM actually was looking at pest

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1 damage but they happened to keep track of the
2 temperature. It turned out in the cold season they had
3 dropped -- five days they were down to 9.2 to 9.8
4 degrees celsius and the normal crop was just wiped out
5 where as the SRI crop gave a 4.16 ton yield in spite of
6 that cold spell because that root system gives them
7 protection, buffering whereas in the season also there
8 was 50 percent more yield with SRI methods. So, anyway,
9 the requirements or constraints because everything has
10 certain constraints is you need to have good water
11 control to supply smaller but reliable amounts of water
12 so farmers can comfortably let the water go and not
13 flood. That may require drainage facilities in some of
14 the places. If you're going to go the organic route,
15 you need a good supply of biomass, not just the straw
16 but other access to manure or weeds or cuttings and so
17 forth. You can use fertilizer. It works. But the very
18 best results are coming with fully organic
19 fertilization. You might need crop protection because
20 you have so much more biomass for the buggies. But
21 generally we find that's not a problem, but we have to
22 keep in mind that with more crop to be predated and
23 infected, you might have a problem there. Use of a
24 mechanical hand weeder, which costs about \$12 to \$15 is
25 recommended because that aerates the soil. At the same

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1 time it removes the weeds, and then skill and motivation
2 of farmers is the most important thing. We can't forget
3 the farmers. And we try to not tell them what to do but
4 help them understand the principles behind these changes
5 and practices, they will themselves make the adaptations
6 and apply this. And we're finding that although this is
7 initially more labor intensive once farmers have
8 mastered the techniques they can even save labor. When
9 I was in China summer before last in Sichuan Province
10 the Extension Service said the large farmers are taking
11 this up more quickly than the smaller ones. Why?
12 Because they save money on seed, on water and labor, as
13 well as cash or their cost. So this can't even become -
14 - labor intensive was thought to be a barrier for this
15 adoption but once we got outside of Madagascar and got
16 to Asian farmers or even African farmers, they're
17 finding they can actually save labor because there are
18 so few plants. That makes the difference. And then the
19 support of experts is helpful but so far we've had more
20 opposition than support from the rice experts, which is
21 unfortunate. In 1999, ten years ago, there was one
22 country in the world where this was even known. Today,
23 like I say, we have 36 countries where it has been
24 demonstrated that these changes in the management
25 practices will give you a better feener type. This is

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1 one of my favorite pictures from Cambodia. That women
2 is holding a plant grown from one seed and her yields
3 used to be two to three times on this field, 6.72 was
4 the calculated yield from four crop cuttings. One crop
5 cutting was an 11-ton yield in that area where the soil
6 biology was really mobilized. I met this woman about
7 six months after the picture was taken. I thanked her
8 for this picture that I was glad to include in my Power
9 Point, and so forth, and she looked a little worried,
10 and I thought, oh, did I do something wrong? Maybe I
11 should have asked her permission or maybe her husband
12 wouldn't like us showing her around the world this way.
13 And I said is there a problem? She said, oh, if I had
14 known how you were going to use the picture, I would
15 have gotten my biggest one. She thought she was taking
16 a random plant from that field. This is Afghanistan.
17 I'm sorry our friend from the military isn't here. This
18 is about 1,700 meters elevation in Bagwan [ph] district
19 where the Ogacon [ph] Foundation has introduced SRI.
20 These farmers are planting little 13 days seedlings, 30
21 x 30 spacing. This is one of their fields at 30 days.
22 It doesn't look very promising yet, but this is a
23 picture of a single rice plant at 72 days after seeding
24 133 tillers. And the yield calculation by the Ogacon
25 Foundation staff was 11.56 tons per hectare. And for

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1 the six farmers that did this carefully their average
2 was 10.1 tons. That's in Afghanistan. That's not your
3 prime rice growing area normally but you can get really
4 good plants if you can mobilize, grow good roots and
5 then mobilize. This picture is from Iraq from their
6 rice research station near Najof [ph] where Dr. Kejare
7 Hamid [ph] was comparing different varieties of SRI
8 methods and conventional methods side by side. So I
9 don't have to say much about that. You can see the
10 difference there. So I'm almost through here.

11 Reduction in greenhouse gases is a good issue. Think
12 about Dr. Dorothy Kamora [ph] from Tokoyo University has
13 been doing work in Indonesia looking at methane flux in
14 seven different locations and nitrous oxide flux. Her
15 conclusion was that the methane flux tends to be higher
16 as we sort of expect that because they're flooded versus
17 unflooded, and the highest emissions were during the
18 early stages of the conventional methods, but we were
19 worried. What about the nitrous oxide? If you lower
20 methane but you raise nitrous oxide, which is a much
21 more vicious molecule, it could offset it. But her
22 finding was that the values for nitrous oxide are in the
23 range found for conventional paddy fields so it looks as
24 if it's kind of a optimal situation. You improve the
25 methane and don't make the nitrous oxide situation

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1 worse. At Epabay [ph] in Indonesia they've been doing
2 work. This is the maps showing with methane emissions,
3 conventional, and then inorganic, fertilized SRI,
4 organic SRI and then organic SRI plus bio-fertilizer, so
5 you can get very substantial improvements in methane and
6 for the nitrous oxide emissions between the conventional
7 and SRI inorganic not much difference. Organic, a
8 little better, but if you use bio-fertilizer also, they
9 find that you can actually get considerable improvement
10 in nitrous oxide. There was recently an article
11 published in global bio-chemical cycles where they
12 looked at the effects where if you have just one break
13 in the continuous irrigation or at least one application
14 of straw in the field, substantial reductions, a total
15 of 7.6 gigatons of emissions. But for us the important
16 sense was this one, although draining continuously
17 flooded rice fields may lead to an increase in nitrous
18 oxide, which we expect, the global warming potential
19 resulting from this increase is negligible when compared
20 to a reduction in global warming potential resulting
21 from the methane reduction associated with draining the
22 fields. So we think actually we're making claims that
23 we have some primary evidence saying we can actually
24 make a contribution on greenhouse gases. These ideas
25 are being tied to other crops, wheat, finger millet,

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1 sugar cane, tef, kidney beans, cotton, vegetables. This
2 one, Indian Business Weekly on SWI, the system of wheat
3 intensification being practiced up in Utrakhand and
4 Amatrabadesh [ph]. Farmers get as much as a threefold
5 increase from wheat using these ideas. This is finger
6 millet in Jakon [ph] state in India. On the right we
7 have a traditional plant, traditional methods. The
8 middle is improved variety with traditional methods.
9 And you see you can improve things with genetic
10 approach, no question, but if you use the improved
11 genetics plus management you see a different feener type
12 results. This is a new publication from Inkrasat [ph]
13 and now applying these ideas to sugar cane. And they
14 said at least 20 percent more yield with 30 percent less
15 water and 25 percent less chemical inputs, which is very
16 important for a very thirsty and chemical dependent
17 industry. And they say the inspiration for putting this
18 package together is from the success of SRI. This then
19 -- I'll close with this. This is research reported by
20 Dr. Turaki Berhay [ph] who is the rice leader for
21 Sasakaba [ph] Africa Association based in Adasababa [ph]
22 but he's originally a tef [ph] man. In Ethiopia it
23 would be tef first. And he took SRI ideas, he calls it
24 STI now, and replicated trials and found that whereas he
25 would normally get about a ton yield of tef, and that's

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1 what you usually get with tef, he'd get three to five-
2 ton yields when he took small seedlings and transplanted
3 20 x 20, and good organic matter in the soil. He got a
4 whole different plant coming from that. He then tried
5 in a second set of trials adding some micro-nutrients,
6 and got up as high as almost nine tons. Now it's his
7 footnote. He says yield levels never reported before.
8 He's never seen or heard of anything this responsive so
9 he's getting tef also to respond to these ideas of
10 spacing, soil aeration, soil organic matter working
11 together. So we're still -- we say this is a work in
12 progress. It's kind of a progress report I'm giving
13 you, not a final answer, but we're finding that by
14 taking management really seriously and thinking outside
15 a lot of boxes that both farmers and researchers have
16 had for a long time, we can get really remarkable and
17 cost effective results especially those that would be
18 important in an area of climate change. So my six
19 points for what I call this emerging post-modern
20 agriculture, grow roots. Don't think about the canopy
21 first. Think about the roots first. Promote the life
22 in the soil. It only works in the soil. Improve soil
23 structure and functioning. Conversation agriculture is
24 part of that. Focus on green water, not just blue
25 water. Green water is that which gets stored in the

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1 biosystem, biosphere, not just putting dams or rivers
2 and stuff like that. Make increased soil organic carbon
3 a priority because you can both increase production and
4 sequester carbon so there's a kind of benefit there.
5 And reduce our chemical dependence in agriculture. I
6 think that's -- it's not as much imperative but I think
7 that's the direction we're going to be going. As we
8 start mobilizing better the potentials are in crops.
9 Anyway, let me stop there because I hope I get some good
10 feedback from Carol and from Bill. Bill, by the way,
11 knows about this because Africare has been doing this
12 kind of work in Mali.

13 THE CHAIRMAN: I feel really good, but my crop
14 science leader, soils leader, convinced me to hire a
15 microbiologist recently, soil microbiologist, so that's
16 a pat on the back here. Thanks very much. Our first
17 respondent is Carol Kramer-LeBlanc, Director,
18 Sustainable Development Program, USDA/CSREES. It's now
19 changed. Whatever it is now so thanks, Carol. Sorry we
20 didn't get a chance to chat before.

21 MS. KRAMER-LEBLANC: Hi, everybody. It's a
22 pleasure to see you. Hi, Calvin [ph] especially. It's
23 been a long time. It's great to be here this afternoon,
24 and I very much admire the work that Norm Uphoff has
25 undertaken in advancing sustainable agriculture and food

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1 security in Madagascar and elsewhere, and I had the good
2 fortune to work a little bit in Madagascar a few years
3 ago when I was with the Millennium Challenge Corporation
4 and got to visit some of the SRI plots and talked with
5 people in the field. And I find it a very intriguing
6 system and must say that I'm struck by the controversy,
7 if you will, that's out there in the scientific
8 literature and so part of my message today is to say
9 that I am extremely positive that we're discussing
10 alternative systems and practices to meet what are
11 really monumental food security and income livelihood
12 needs in the future. I have just participated with many
13 colleagues from the government and nonprofits and
14 academia in a two-year cycle at the United Nations
15 Commission on Sustainable Development, and our two-year
16 cycle was to review in year one global agriculture,
17 rural development, land, drought decertification in
18 Africa, and then this last spring to try and reach a
19 consensus, Phil was there, Phil Steffens [ph] of AID, on
20 some key agricultural policy issues. And I think we can
21 all agree that productivity growth will be essential as
22 the global population increases from 6.4 to 9 billion in
23 the next 40 years or so, and along with productivity
24 increases we have food security needs which are not the
25 same thing. They are related but not the same. Second,

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1 not only must ag productivity grow but also agriculture
2 profitability. And remember that is the difference
3 between revenue and cost. So the cost of inputs are
4 very significant in calculating productivity -- excuse
5 me, profitability. And then the third thing that is so
6 emphasized in the Commission on Sustainable Development,
7 and I think we are understanding more and more is that
8 sustainability depends on good utilization of social,
9 environmental, and economic capital so that we as a
10 planet exercise good stewardship and leave the planet in
11 as good or hopefully in better shape for the next
12 generations. And so far we're not on track on that last
13 trajectory. So how do we do this? The picture is very
14 complex because the dimensions are many. And let me
15 just say a word about the CSD and then I'll turn back to
16 what I got out of the discussion today. The Commission
17 on Sustainable Development called for enhancing
18 agricultural production, productivity and sustainability
19 by first employing science-based agricultural approaches
20 and local and indigenous knowledge while understanding
21 research and development to include plant varieties,
22 livestock and soil. And these are direct words from
23 what our consensus document looked like. Encourage
24 development and adoption of locally appropriate farming
25 systems and agricultural practices so the farming system

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1 is a concept that I think we have to keep in mind.
2 Secondly, promote the use of soil conservation and
3 improvement techniques including integrated nutrient
4 management and nutrient use efficiency especially to
5 prevent degradation of vulnerable land and restore
6 degraded land. And this emphasis on soil was very pre-
7 eminent among the experts and among the representatives
8 of different ministries from around the world. That's
9 very much in keeping with what Norm Uphoff is saying.
10 Thirdly, in our document promote sound water management
11 and saving in agriculture through efficient irrigation,
12 through water harvesting and storage, through treatment
13 and reuse, and again this is a feature of the system
14 that you've just heard described. And we also had a
15 mention in there which the U.S. was supportive of, as
16 appropriate support countries to strengthen research in
17 areas of growing market demands such as organic
18 agriculture. This surprised many people that we wanted
19 to include organics. We made a very strong point that
20 we are not advocating any exclusive reliance on organics
21 but where there is consumer demand and where it is
22 growing, this is an area that we think should be
23 supported. So we have a deputy secretary at USDA now,
24 Secretary Kathleen Merrigan, and she went and spoke to
25 the ministerial. She emphasized the need to manage land

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1 within ecological capacity, the development of
2 appropriate land tenure systems that incentivize
3 improved land management, low and high tech special
4 management planning tools that allow land and water to
5 be integrated into national, regional and local
6 development planning. And there are an array of
7 domestic and international policies and programs that
8 are useful to manage land and water resources to achieve
9 long-term sustainability. In addition to the clear need
10 to meet food security needs of a growing population our
11 challenge is to provide co-benefits, and what are we
12 talking about here? Improve bio-diversity, sustained
13 water quality and quantity management, carbon
14 sequestration among others. Added to that is to manage
15 inputs carefully to protect human health of workers and
16 consumers. And some of you may remember the Erie
17 research from several years ago where John Anthel [ph]
18 and Pablu Congali [ph] looked at the costs and the
19 benefits of trying to improve worker exposure to
20 pesticides used in rice management systems. So this is
21 also a feature that should be incorporated, I think,
22 into the overall analysis. Global agriculture right now
23 faces many challenges but there are some impressive
24 opportunities. I came this morning from a congressional
25 briefing breakfast that was held to talk about the

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1 legislation that you also heard about this morning, I
2 understand, and there is a lot of interest in trying to
3 finally do something that would address food security
4 and sustainable agriculture problems around the world.
5 And there's great recognition that the productivity
6 increases of what I guess Hillary Clinton is calling the
7 green revolution 2.0 recognizing that it needs to go
8 beyond what was done in South Asia 25 years ago. This
9 is important but also important are all of the
10 connections of the agricultural unit to the market and
11 to the social structure beyond that. So one thing that
12 comes to my mind as I think of Madagascar, for example,
13 one of your colleagues did some research there. I think
14 it's Chris Barrett, who looked at factors influencing
15 sort of economic viability of rural households there.
16 And isolation is one of the biggest factors governing
17 success in agriculture. Another is the unpredictability
18 and the riskiness of relying on input markets when you
19 don't have a policy regime that can supply predictable
20 supplies of inputs at reasonable and appropriate levels,
21 and so you may have one fertilizer prescription for a
22 very heterogeneous set of land masses, you know. It's
23 just not appropriate. So you get over fertilization of
24 particular nutrients and under in other areas. And so
25 as a collective body, we need to come to some way of

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1 balancing a whole array of very heterogeneous factors
2 that go into successful performance of agriculture, and
3 we have to look at systems both in terms of management
4 systems on the ground but also larger systems as the
5 farmer gets links into the larger society. So I will
6 not go on too long. I just have a couple more remarks.
7 I would challenge those in the agricultural community to
8 try and work together to really look at these systems in
9 a meaningful way and make sure that the right paradigms
10 are used to capture some of the complexity in the
11 systems. My colleague from past days, Sarah Shear [ph],
12 in speaking with her about eco-agriculture, she pointed
13 out the importance of landscapes and the importance of
14 going beyond just plots and looking at landscapes in
15 terms of measuring impacts. So we live in a time when
16 our technologies can provide instant communication, that
17 can provide widespread technology dissemination, the
18 ability to map resources of every category in layers,
19 and plan intelligent sustainable resource use. And, as
20 I said, but we see that in the developing world there
21 are still people in very remote areas who are not
22 connected to markets or to the knowledge economy, who
23 are not food secure, and who continue to live on less
24 than \$1 or \$2 a day. So we need to synthesize the best
25 of science and practice that exists. And I welcome the

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1 prospects that practitioners can and will work together
2 and look at some of these systems in new and different
3 ways and try and challenge whether or not the plan
4 growth you see there can be sustained and can be a
5 meaningful contribution to our future sustainable food
6 security. So thank you.

7 THE CHAIRMAN: I think the operative word is
8 system, and I'm glad that we're beginning to think in
9 that term. Our next respondent is Bill Noble. He's
10 already been mentioned, Regional Director, Francophone
11 West and Central Africa Programs, Africare USA. Bill.

12 MR. NOBLE: Thank you. Dr. Uphoff, I'm not
13 going to make any criticisms of your presentation
14 obviously because the work that we're doing in Mali with
15 SRI, which has received some unofficial report, for
16 which we're very grateful. I am going to talk very
17 briefly a little bit about Africare in terms of food
18 security and agriculture, and then I'm going to talk a
19 little bit about SRI and a couple other observations
20 about the program, which is slowly becoming very well
21 known in Mali as potentially a model for repetition.
22 Over the last 20 years, Africare has become a major
23 partner with USAID in Food for Peace programming, and
24 that is by far the largest source of support for small
25 scale agriculture that we've done in Africa partly

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1 because there just hasn't been very many resources for
2 agriculture, and we're very excited with the changes
3 that are being proposed and discussed in the Congress
4 and coming out of USAID in terms of focusing on
5 agriculture and defining food security in a slightly
6 different way. But the realities are that ourselves and
7 some of our other colleagues in the PVO community have
8 really only had the opportunity to work in small scale
9 agriculture on a long-term basis through the Food for
10 Peace mechanism, which has been pretty much a stable and
11 abundant source of support for our work. Our work in
12 small scale agriculture has focused on more isolated
13 areas because by definition we're looking at areas that
14 are food insecure such as northern Mali, northern Niger,
15 eastern Chad, central Guinea, southwestern Uganda, and
16 other places that are not necessarily bread baskets.
17 And I think this may separate a little bit some of the
18 areas that the research that's been done on SRI and
19 practical experiences that have focused on taking what
20 has become the standard for rice production and
21 certainly in the Asian countries. Africare has been
22 working in Mali for about 35 years and we've been pretty
23 much a standard presence in northern Mali for the last
24 25, and that includes during the insecure times in the
25 mid-'90's. The work that we're doing in Timbuktu region

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1 has started about 12 years ago, and for those of you
2 that are familiar with Mali as a country it's set up in
3 such a way geographically, ecologically that once you
4 get above the multi-area the rainfall levels go down to
5 150 to 200 millimeters a year which makes it very
6 difficult to think in terms of any type of major
7 production. The good news is that the Niger River does
8 go through that part of Timbuktu region. There's a
9 delta, and there's a very complicated system of
10 tributaries and water that rises as during the rainy
11 season, which creates an abundant opportunity for
12 recessional agriculture which has been practiced there
13 for probably a millennium, certainly with the
14 traditional cereal crops. And over the last --
15 certainly since independence there has been a movement
16 to develop irrigated agriculture in northern Mali using
17 motorized pumps as the main source of water getting the
18 water from the river up to the fields. And the model
19 has been 30 hectare irrigated perimeters. And Africare
20 and a lot of other agencies, including the Malian
21 government, have developed this model. And there's
22 probably been more than a thousand of these perimeters
23 that have been established in the last 30 years.
24 Ourselves, we established probably upwards of 40 of
25 them. Some work and some don't because it's not just a

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1 question of getting a bunch of farmers together to grow
2 rice. It's a question of organizing them, training them
3 to work together as a group, and then if you want to add
4 on storage and taking advantage of markets and price
5 swings for the commodity because most of these
6 activities are to increase not only food production or
7 rice production for consumption but also for marketing
8 because in Mali rice is looked at as a marketable
9 commodity. So we were working with this model in
10 Timbuktu for probably almost ten years before the SRI
11 idea developed as an alternative to be explored. And,
12 frankly, the work we did was well received. There was
13 no question. The analysis, the evaluation, the outside,
14 internal said that any communities that were involved
15 with an irrigated perimeter that we were supporting were
16 overall much better in terms of food security and food
17 provisioning and what have you. So it was a good
18 support that we were providing with our work. What SRI
19 has done is to make a good thing even better, and you
20 saw the results in Dr. Uphoff's slides. Those are
21 documented. And when we started the trials in 2007 it
22 was within the context of our Food for Peace program,
23 and then we were able to continue those last year, and
24 we're currently doing a slighted expanded version of the
25 program with support from USAID Mali, and also from the

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1 Better You Foundation. We have developed the technical
2 goals that we hope USAID will support that will allow us
3 to expand SRI throughout the entire Timbuktu region.
4 And from my perspective, and I was in Mali a few months
5 ago, I actually lived there for three years before this
6 program was adopted, the SRI was adopted, we had a lot
7 of failures with our irrigated perimeters. I would say
8 probably about four out of ten didn't work after quite a
9 bit of investment, anywhere from \$30,000 to \$50,000 in
10 terms of motorized pumps and organizing the -- getting
11 the land level appropriately and building the drainage
12 canal, the canals for drainage, and what have you. And
13 always the failures were because of the lack of level of
14 cooperation between the farmers themselves, leadership,
15 if you will, decision making. We had a couple people
16 that stole money and all that kind of stuff, the same
17 issues that we deal with as development professionals
18 day in and day out. So from my perspective, and I think
19 my colleagues in Mali would agree, that a lot of the
20 software was in place for some of the work that we did
21 the trials for SRI. We also took advantage of that so
22 the reaction of the farmers has been phenomenal.
23 They're clearly showing increasing revenues for their
24 households based on the increase in production and, more
25 importantly, the reduction in costs for the motorized

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1 pumps, which is by far the biggest expense for this
2 model. It's something that you don't see in a lot of
3 other countries, obviously, because there may be higher
4 levels of rainfall, maybe elevation, mountains and what
5 not, for irrigation that way. There aren't no mountains
6 in northern Mali to speak of. It's all related to the
7 pump. That's the biggest expense. And the biggest
8 impact in our work with SRI has been to reduce the
9 amount of cost to manage the pump by 50 percent, which
10 would increase the life of the pump for growing seasons,
11 and what have you. So that is a perhaps somewhat unique
12 application of SRI in terms of benefits, but all the
13 other benefits in terms of reduced levels of water, the
14 improved planting, and reduced numbers of seeds for
15 transplanting, and what have you, the weeding with a
16 manual weeder. We're using all those aspects of the
17 methodology and it's having an excellent impact. The
18 level of response from the farmers, as I said, is
19 phenomenal. We have also kind of on our own, I think
20 Dr. Uphoff mentioned about some work with wheat in, I
21 think it was Afghanistan. We're also -- we did some
22 experimenting with wheat last year in Mali, and it was
23 pretty well received. The levels of increase in yields
24 was not as substantial but several of the perimeters
25 that we worked with over the years historically have

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1 been focused on wheat. Mali is not a very large
2 producer of wheat but it's just kind of developed. The
3 biggest challenge for us in the SRI program, and I saw
4 this when I was there in February, I actually visited a
5 perimeter where they're using SRI for wheat, but it's
6 the same for the rice program, which is currently going
7 on now in its third season is the access to organic
8 fertilizer of the biomass. Most of the populations in
9 northern Mali, probably if you had to -- livestock is
10 more of an issue. It's more of a support for their food
11 security. There's a lot of ethnic groups and what not.
12 So livestock is a big issue. It's a big source of
13 support for the household. So you'd think there would
14 be a lot of biomass, but the truth is there's just not a
15 lot of people. Yes, there's more animals than people
16 but there's still not a lot of animals. So having ready
17 access to the biomass and where it is by far the biggest
18 challenge to have enough organic fertilizer to support a
19 hectare or a 30-hectare PIV, and that's really what
20 we're focusing on is ways that that can be collected and
21 put into these pits for composting. Another point I'd
22 like to make, and again I'm not disagreeing with
23 anything that's been presented, you're speaking to the
24 choir here, is the observation Dr. Uphoff made about
25 resistance, and not going into the debate in the

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1 scientific community about organic versus technology
2 saves agriculture, which I understand very well. I'm a
3 product of Davis so I was given the drill back in the
4 day. And I don't -- I think there's benefits to both
5 sides, but within Mali the policy of the government
6 historically has been over the last 15 years to become a
7 net exporter of rice in west Africa, and they're very
8 proud of the fact that they reached that five years ago,
9 seven years ago. They became a net expert at rice
10 because of all the investments that were put in the
11 office in Niger in the central part of the country and
12 which is currently one of the focus areas of the NCC
13 program, the compact that was signed three years ago.
14 Wonderful. That's great. But what people don't
15 understand obviously from the outside is that the
16 northern part of the country where the rainfall levels
17 go down by half there's still a large population, and
18 politically there's still some issues in terms of the
19 ethnic groups in the north versus the groups in the
20 south is such that the need for rice production,
21 increasing rice production, is even more important. So
22 we've had strong support and buy-in from the Ministry of
23 Agriculture in Timbuktu. They've actually identified an
24 SRI that we've trained, an SRI advisor for the province
25 with the region, and with this new program that we hope

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1 will be funded later on this year we will basically
2 instill a network of SRI field agents throughout the
3 region in Timbuktu. We're currently working in four of
4 the five circles with our Title 2 program but this will
5 actually go beyond that. But when this program was
6 presented to some of the people to administrate at the
7 national level, the initial reaction -- I would say to
8 this day the reaction is still that's nice, but that's
9 not what we're going to do elsewhere. So we still have
10 some work to do in terms of convincing people. We have
11 the support of the people in Timbuktu. I met with the
12 regional director when I was there a few months ago.
13 He's in. He understands the benefits. But I think
14 partly because of the training and the perspective in
15 the country from some of the other agronomists and
16 research people that work in central and southern Mali,
17 they're still not convinced. So I think our role as a
18 development agency is to support that and hopefully at
19 the end of our program kind of withdraw and let the
20 technicians within the ministry and the farmers
21 themselves take charge for what they think is best and
22 give them the tools they need. In a nutshell, I'm not
23 going to say anything negative about the presentation.
24 I agree with everything that was said. And we'd like to
25 look at doing this in other countries, and we do work

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1 pretty much everywhere where no one else wants to go to.
2 So thank you very much.

3 THE CHAIRMAN: Okay. Now let's open up the
4 floor for questions. Yeah, H. Mr. Barlow from
5 Kentucky.

6 MR. BARLOW: Dr. Uphoff, a couple of questions
7 for you. You mentioned -- and I am a farmer so I
8 totally agree with the importance of saving the soil and
9 I believe in it with all my heart, and I think it's an
10 issue that we need to put more focus on. However, you
11 mentioned you think a challenge of the energy cost of
12 moving, transportation moving food and those kind of
13 things are a problem we have in the future. I was
14 fortunate enough this past October to go to Kenya, and
15 we saw the small stakeholders and we saw those people
16 out there and we were trying to improve their food
17 production, but nobody ever said anything, and this
18 bothers me about this whole operation, no one ever says
19 anything about the people that are behind those tan
20 sheets that were sticking up that were in the teeming
21 cities. Millions and millions of people all over our
22 world, nobody ever said anything about getting food to
23 them, and if we don't improve the infrastructure and
24 talk about how are we going to get food to those people,
25 I think we're not really addressing global hunger. And

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1 I think we're really missing something here. You stop
2 back and think about the history of our country, how did
3 we get to be so self-sufficient where one farmer creates
4 enough food for 90 people. It might be 110. I don't
5 know what the number is today. Just because of our
6 infrastructure. We produce it and we can move it and we
7 can feed people, therefore, that frees people to do
8 other things. And we've got to look at that, and that's
9 a challenge. I think it's great to talk about these
10 little small stakeholders but there are billions of
11 people that live in these cities that don't have a
12 little plot of ground, and they've got to get food. If
13 you talk about food security, global security, if you
14 want to keep people happy and not hungry and not
15 fighting, you got to give them food. So I would like to
16 see someone address that situation.

17 MR. UPHOFF: I can...

18 MR. BARLOW: Tell me how are you going to move
19 that food. How are you going to move that food?

20 MR. UPHOFF: We will...

21 MR. BARLOW: Well, that may be true. He just
22 talked about Mali, people in Mali the north to the south
23 -- obviously the north can't grow the food because they
24 don't get the rainfall.

25 MR. NOBLE: There have been some

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1 efforts to increase cereal production in the north...

2 MR. BARLOW: But I just feel like we need to
3 think about the people, the masses of people that don't
4 have any food, you know, besides just the ones out in
5 the country.

6 THE CHAIRMAN: You make a good point. Carol,
7 did you have a comment?

8 MS. KRAMER-LEBLANC: I think you're exactly
9 right. I think moving food is very important, and I
10 think that there's been a lot of thought given lately to
11 growth corridors and looking at ways of improving
12 infrastructure to get food from the interior to the
13 capital cities, and some of the good things about that
14 is for farmers who don't -- we may have a lot of trouble
15 assessing initially markets or getting food into our
16 country because we have a lot of standards and they're
17 hard to meet sometimes, but they have capital cities.
18 We now have more people in urban areas in the world just
19 recently so these are folks that are customers that can
20 help if there's a marketable surplus. I think you're
21 exactly right and it is very important.

22 THE CHAIRMAN: And creating markets creates a
23 flow of currency back into rural areas which helps
24 address that poverty issue as well, so again the word
25 system keeps coming to mind. It's not a single piece.

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1 It's a whole that has to be developed. Were there other
2 questions? Bill.

3 MR. DELAUDER: I was going to follow up on
4 that comment because we know that that's an issue, and
5 we know that ultimately if African countries are going
6 to become more self-sufficient as it relates to food and
7 they can trade with each other and so forth, if we don't
8 address the infrastructure problem then we're going to
9 continue to have problems. And the frustrating part
10 about is it that the United States knows that this is an
11 issue but we don't seem to want to do anything about it.
12 I wonder too whether -- I mean we look at what the
13 Chinese are doing. I wonder if we worry about that
14 because they are addressing some infrastructure
15 problems.

16 MR. BARLOW: We saw a big Chinese road built
17 in Kenya while we were there.

18 THE CHAIRMAN: That was one of the things
19 that's still a question in my mind was why because it
20 was in a desert area as we were traveling across Kenya,
21 a massive road project that the Chinese have undertaken.
22 Are there questions from the audience about the topics
23 that we've covered here? I think it calls upon us to
24 think about productivity increases in a different way
25 than we have historically. I think in most cases the

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1 science has been very focused in different disciplinary
2 areas, and this notion of management of
3 interdisciplinary as it relates to production of crops
4 is something that deserves our very serious attention.
5 And I appreciate very much you getting that topic on the
6 floor for us to consider here today. I think unless
7 there's further questions from the Board, we'll move on
8 to our next topic, which I've been looking forward to.
9 I have a special interest in Latin America so I've been
10 looking forward to this all day, food security in Latin
11 America. Agriculture, Economic Growth and Trade is the
12 overarching theme. And I don't know if our speakers are
13 here. David Jesse, are you the first speaker, is coming
14 up. And the Economic Growth Team, Office of Regional
15 Sustainable Development, USAID Bureau for Latin America.
16 We had a chance to sit together and get acquainted
17 briefly at the Council of Deans.

18 MR. BYRNES: Well, the dynamic duo of David
19 and Kerry, you're getting the short end of the stick
20 here with Kerry. My colleague, David, is within a few
21 days of retiring going into the retirement seminar.
22 He's also dealing with an illness in the family. His
23 sister has cancer, and so I think you can understand he
24 has some other issues on his plate. So what I'd like to
25 do, and I thank everybody prior to me staying on time,

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1 so I'll try and get done in the allotted time. I've
2 been asked to talk a bit about the issue of food
3 security in Latin America. I think we have three types
4 of hunger in Latin America, what I'm calling headline
5 hunger, children who are malnourished under five years
6 or under two years. We had hidden hunger. We have a
7 lot of poor people earning less than \$1.25 or \$1.00 per
8 day, hard to buy the food that is available. The
9 problem is not lack of food. The problem is poverty.
10 We also have what I've coined as Haites hunger or hot
11 house hunger. That looms on the horizon as climate
12 change may bring reduced rainfall, higher temperatures,
13 and this will have a negative impact on yields so this
14 issue speaks to the need for investment in research for
15 adapted productive technology. You all know about the
16 food price rises. Over the past two years the same hit
17 the region. There were a number of government responses
18 in the short term, none of which are really sustainable.
19 There were efforts to expand food availability through
20 free or subsidized inputs, tariffs and taxes on food,
21 restrictions on food exports. There were efforts to
22 expand access to food through food subsidies, targeted
23 cash transfer programs, increasing government salaries.
24 That would have been nice here in Washington to keep up
25 with the food price crisis here. Some efforts were

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1 maybe a little more longer term focused on stimulating
2 more food production at the level of small scale
3 producers. I'll come back to comment on that with
4 respect to Central America. Of course, the
5 effectiveness of these programs will depend on a range
6 of factors, ultimately, if there's someone around to buy
7 what the farmer produces. Poor farmers in the Central
8 America region tend to operate on small plots, low soil
9 fertility, isolated, lack of access to support services.
10 Part of this scenario points that to reduce food
11 insecurity will more likely require increasing jobs and
12 raising incomes than just increasing domestic food
13 production. We recognize that some opportunities may
14 exist to improve efficiencies in domestic food markets,
15 lowering shipping and logistic costs for imported food.
16 Looking a little bit longer term, there were some
17 instances of conditional cash transfers, policies and
18 programs to increase employment, support for cash crops,
19 agro-business development, and of course the underlying
20 need is to develop human capital. Some of the effects
21 on LAC economies for countries mostly in South America
22 that are commodity exporters the rise in food prices
23 meant positive effects on growth, some negative effects
24 on inflation, but for Central America, who generally are
25 commodity importers, there were negative effects on

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1 growth and negative effects on inflation. You all saw
2 in the newspapers, the headlines on non-violent and
3 violent protests highlighted here by the picture of some
4 protesters in Haiti. Overall adverse effect on
5 consumers, increasing the number of poor and threatening
6 the already precarious nutrition situation in some of
7 the countries, obviously, poor consumers being most
8 affected. Generally, inflation being higher for food
9 than overall. Generally, in Central America, to cite
10 one example, a lot of the households are net consumers
11 of food, meaning if you're a rural based producer you
12 don't grow enough to feed your own family, and you have
13 to go into the market and buy food, and now you're
14 facing higher prices for food. Here are some examples
15 of how the price rise impacted on increase in poverty.
16 Effects on small scale producers. In the near term some
17 benefitted, and I use that word benefitted with entra
18 comias [ph] from government-provided free or highly
19 subsidized inputs. However, by this year Central
20 America ministers of agriculture who were under the gun
21 last year, you know, we don't have enough food, we need
22 to produce more food, food prices are up. Now they have
23 a problem where are the markets to buy the food that was
24 produced with all of the free fertilizer and free seeds
25 and so on. There's a longer term issue facing not just

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1 Central America but other countries such as in the
2 Andian region, Colombia, Peru, and Panama, those LAC
3 countries that the U.S. has free trade agreements in
4 place now being implemented or which are pending
5 ratification by the Congress, and that's that the
6 tariffs on very sensitive ag products will be declining
7 over the coming 15 years, and this will make it
8 increasingly difficult for smaller scale producers to be
9 competitive in those crops in the face of cheaper U.S.
10 exports unless we can find ways to shift those producers
11 into higher value crops or value added enterprises or
12 get them off the farm into jobs in the value chains.
13 Right when we were completing the study, this study
14 which we called the Trade Led Diversification Study done
15 by my colleague, David Bathrick [ph] under contract
16 initially with Carona [ph] and then with Camonics [ph]
17 this food price thing hit the screen. And here we were
18 arguing there's a need to shift producers into higher
19 value crops and all of a sudden everybody is scrambling
20 to produce more of the low value basic crops. Well, you
21 know, that's fine if you're a net food producer who has
22 the land, has access to credit, has the machinery, has
23 the know how to take advantage of those higher market
24 prices but most of the rural population in Central
25 America are net food consumers. As I mentioned, they

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1 have to go in the marketplace to buy food because they
2 can't produce enough, and they're not well positioned
3 for various reasons to be able to produce more. So
4 we're looking at a situation where we felt there are
5 still potential benefits from diversification. It's a
6 way for families to increase their incomes through
7 higher value crops. It increases the variety of
8 nutritious food available. For examples, if kumquats or
9 asparagus or raspberries or whatever don't quite meet
10 the export requirements it still is available in the
11 local market and will help improve nutrition. Overall,
12 we feel this will improve the balance of winners
13 relative to losers as tariffs decline. Part of our
14 concern about that issue derives from 15 years in the
15 NAFTA. There was a transition period. Today in
16 southern Mexico there is many poor campesinos producing
17 more corn than ever if they're not marching northward.
18 Nothing was done to help them transition into alternate
19 enterprises. We do not want to see the same happen
20 further south in Central America. So I shift now kind
21 of into more of a discussion of food security. You all
22 now the standard definition and you know there are these
23 three components of availability, access, and
24 utilization. Part of the presentation or a good part of
25 the presentation was developed by colleague Bobbi

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1 VanHefton [ph] who happens to be down in Nicaragua
2 working on a food security assessment for the AID
3 mission there. I tried to get her back so she could
4 give this presentation but she has to get that job done
5 first. So we all know how many kinds of factors are
6 interrelated that ultimately impact on a country being
7 more food secure. In Latin American, the Caribbean food
8 insecurity was already a problem prior to the food price
9 increases and some countries have problems in all three
10 dimensions of food security. This slide highlights that
11 some countries such as Bolivia and Guatemala, Nicaragua,
12 aren't much different than countries in Subsaharan
13 Africa in terms of food being available in the market
14 place based on calories per person per day available.
15 That doesn't mean that the farmers or the rural
16 population or the urban population have access to that
17 food because that's an issue of income. On the issue of
18 access the root cause of food insecurity is lack of
19 purchasing power. When you look at the percent of
20 population that is below \$1.00 a day, you can say it's
21 highest in Haiti and closely followed by countries in
22 Central America and the Andian region. On food
23 utilization there's great prevalence of chronic
24 malnutrition, notably in Guatemala where child stunting
25 is very severe. This chart just gives some examples of

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1 how chronic malnutrition rates are much higher in the
2 rural areas than overall country wide. And I see here
3 one example in Guatemala, 69 percent in the northwest.
4 Bobbi here makes the point that it's a very time
5 sensitive issue. If mothers, pregnant mothers, small
6 children, don't get food and the right nutrients and the
7 right time period when they're young, it's going to have
8 a very adverse consequence on their physical and mental
9 development. My colleague, Robin Comfort, at USDA
10 brought to our attention a new assessment that USDA,
11 Economic Research Service did on food security based on
12 IMF projections that export earnings, growth, and
13 capital inflows in the region would contract over the
14 2009 base. Food insecure people across 70 countries
15 worldwide would increase by 12 percent. The impact
16 though will be greatest in the LAC region. The food
17 insecure people to increase by 20 percent which equates
18 to about 10 million. For comparative purposes just in
19 Colombia alone there's 7.8 million people who live on
20 less than \$1.25 a day so just the worldwide impact is
21 having the effect of creating another Colombia within
22 the region. In 2009, 32 percent of the LAC population
23 identified as food insecure and now projected at more
24 than 38 percent in the context of the global recession.
25 LAC countries are going to find it difficult to finance

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1 the necessary imports, capital inflows likely to
2 contract. Export revenues down due to lower commodity
3 prices and demand. Foreign direct investment down due
4 to uncertainty and lack of credit. Remittances down as
5 people here in the U.S. aren't finding work, aren't
6 sending as much money back to their home countries. So
7 USDA estimates that in the long run to 2018 food
8 insecurity's percent of the population will be about 33
9 percent, and particularly Guatemala is one of the more
10 problematic countries. And because of the great
11 inequity in the distribution of access to assets,
12 productive assets and the poverty in the region it's
13 going to take a long time to ensure that all people
14 there have access to sufficient food. So in the bureau
15 we've been thinking about how to respond to this.
16 Partly in our discussions with the -- discussions within
17 the agency and interagency about the global food
18 security strategy, we see the pathway as a combination
19 of increasing access to food by raising incomes of the
20 poor and reducing chronic malnutrition by improving food
21 utilization. Bobbi, using a methodology from the Food
22 for Peace office did an index combining food
23 availability, food access and food utilization measures,
24 and based on that analysis the most food insecure
25 countries in the region were these six, and that was

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1 true no matter which way you weighted the three
2 measures, like 60, 20, 20, 35, 50, 15, whatever, the
3 same six pop up. Which one might be in first place
4 might vary depending on the weighting. So we think the
5 first priority is to improve access to food by expanding
6 what we call trade led agricultural and agro-business
7 related or agro-business based programs that generate
8 jobs and increase incomes. And by enhancing the direct
9 and multiplier effects that these programs have on food
10 insecure by including more of the food insecure and
11 targeted client groups and increasing emphasis on
12 activities that increase value added and stimulate rural
13 enterprise, you may recall from speeches by President
14 Obama and Secretary Clinton in the Western Hemisphere
15 there's something called pathways to prosperity in the
16 Americas, a major theme being social inclusion and how
17 to reach vulnerable populations defined as afro-
18 descendants, rural poor, women, indigenous people, and
19 youth at risk. So those are some of the groups that I
20 think we need to figure out how can we help those groups
21 improve their access to food. The second priority,
22 improve food utilization by reconfiguring health
23 programs to give greater emphasis to reducing chronic
24 child malnutrition including by strengthening community
25 and facility based health and nutrition programs and by

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1 putting more emphasis on improving practices for feeding
2 young children. And a third priority, and this, I
3 think, comes from thinking about that hot house hunger
4 of Haites hunger that looms on the horizon, and always
5 the need for investment in maintenance research to
6 ensure that over time your yields don't drop and
7 research to push raising the yields. And I think from
8 Norm Uphoff's presentation the importance of looking
9 more closely at management practices, not just the basic
10 genetic material, how can we get more bang for the buck
11 and more output per unit of land. This is going to
12 become a very knowledge intensive exercise and it's
13 going to require investments in research and training of
14 the next generation to help develop and carry on this
15 work. But assisting in the near term countries to
16 improve the function of their food import systems and
17 domestic food markets, but in the longer term assisting
18 countries to access production technologies to preserve
19 or increase productivity in the face of climate change.
20 On the issue of access basically what we were calling
21 the Trade Led Ag Diversification or TLAD, and I have a
22 few CDs up here that have all of the related documents
23 on them so help yourself. It's a process that involves
24 the shift of land and labor from increasingly sensitive,
25 low value crops with respect to imports coming in under

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1 free trade agreements to value added products derived
2 from those crops, higher value crops, or other value
3 added, that is, industrially of processed products which
4 have high demand in local, regional, and export markets.
5 My colleague, David, said when he did the study one of
6 the issues that came up in every country where they were
7 trying to produce these higher value crops goes back to
8 an issue that one of the speakers, I think it was Sue
9 Schram, discussed this morning about cooperatives. The
10 issue, how do you get the container full? That is going
11 to require giving the small scale that these producers
12 operate, the small land base they have available. It's
13 going to require organization so that through producer
14 groups, cooperatives, you can assemble and pull together
15 the volume of produce that is required to fill those
16 containers. TLAD also involves growth of on-farm and
17 off-farm enterprises to provide value-added processing
18 of crops into higher value products and into market.
19 They're sold into market-oriented supply chains. And
20 then there's the whole issue of the institutional
21 restructuring and industrial service sectors and ag-
22 related public sector institutions that will facilitate
23 this process that involves backwards and forward
24 linkages between the production sector, the services
25 sector, and the industrial sector, and all of that needs

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1 to be supported by the right kinds of policy reforms.
2 So if we were looking for some type of formula recipe, I
3 think in the near term to reduce the headline hunger, we
4 need to focus on malnutrition and those children who are
5 chronically malnourished with the kinds of interventions
6 whether it's feeding or health or education
7 interventions that will lead to improving utilization of
8 food. Also, in the near term we need to address the
9 issue of hidden hunger by helping producers shift into
10 more remunerative enterprises. Recently some work that
11 we did in collaboration with Hunt-Hobbs of the MCC
12 developed this idea of the sustainable value chain
13 matrix where you have -- it all comes together here with
14 a deal being made with the next buyers with products and
15 you're not going to have that much. You have product
16 quality meets market standards, complies with sanitary
17 and sanitary requirements. To get there, you have to
18 mobilize the factors of production through issues around
19 physical capital, human capital, financial capital, and
20 access to technology. And even beyond that, you have to
21 be thinking how do you upgrade your ag sector, how do
22 you make it more competitive, how do you promote the
23 sector, when in the past 20 years that's not the first
24 place we look for making development investments nor the
25 countries that we work with. And in the longer term, we

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1 need to address the Haitian hunger through ag research
2 and development investments to develop climate adapted
3 technologies to improve quality and availability and
4 lower per unit per capita production costs or per unit
5 production costs. You all know the story about AID
6 funding, how it declined over time during the past 20
7 years. We also had the phenomena in the last couple
8 years that the Food for Peace programs under Title 2
9 have been phasing out. By the end of this year, 11 of
10 the 17 programs operated in the region will end, meaning
11 next year there will only be Title 2 programs in
12 Guatemala and Haiti, and this is going to have an
13 additional adverse impact on food security in the
14 region. Looking at FY 2010 this is being talked about
15 as the year to gear up for the launch of the global food
16 security initiative working with host countries on
17 developing a national vision and strategy, so-called
18 compact or commitment, reach out to other stakeholders,
19 NGOs, development banks, and so on. The administration
20 -- the CBJ for 2010 does have a funding request for
21 Haiti Guatemala, Honduras and Nicaragua and at least for
22 the latter two to compensate that the Title 2 programs
23 in those two countries were ending this year, the
24 notional very draft 2011 budget seems to be only
25 proposing funding for Haiti and Guatemala as to the two

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1 LAC countries that are being notionally targeted under
2 the global food security initiative. We have our
3 reasons to explain why that is, but I won't go into
4 that. But I will point out that even if we only have
5 Haiti and Guatemala under that global food security
6 initiative, I think the LAC bureau with what resources
7 we do get, and I know we're requesting increased growth
8 resources for economic growth which won't have as many
9 strings attached. This will be associated with the food
10 security money that we will be looking for ways to
11 program those funds to address the hidden hunger issue
12 of how do you raise rural incomes. We are exploring
13 with CIAT [ph] the possibility of funding a project on
14 how do you link a vulnerable population to the best
15 technology that's available for fruit production. I
16 haven't even seen the concept paper yet but I know
17 they're working on it. And so even beyond Haiti,
18 Guatemala, Honduras, Nicaragua, Ecuador, and Bolivia, we
19 also know in the Western Hemisphere we have major
20 poverty and food insecurity generally particularly in
21 southern Mexico, also in the Andian region, and into
22 Brazil, northeast Brazil. So with that, I hope I've
23 kept us on time, and thank you for the opportunity to
24 present some information on food security in the LAC
25 region.

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1 THE CHAIRMAN: It is a complex problem, isn't
2 it, and it does demand our attention and our commitment
3 to a solution. Questions from the Board? Bill or
4 anyone? Ron, we don't have another speaker in this
5 section, is that the case? We're ready now for -- we
6 did have an announced period of public comment so the
7 floor is open for that, and again, Dr. Williams, did you
8 want to bring forward your comment?

9 MR. WILLIAMS: ...operations and management
10 issues.

11 THE CHAIRMAN: Okay. Any other -- we're
12 moving through this quickly. Surely someone has
13 something that you'd like to say to the Board and bring
14 to our attention. Yes. Please identify yourself, and
15 if you wouldn't mind, go to the microphone.

16 MR. HATCH: I just wanted to mention that we
17 believe -- and I'm David Hatch from IACA, Inter-American
18 Institute for Cooperation in Agriculture. We have two
19 colleagues here, one from Costa Rica, Chris Hansen, the
20 deputy director general of IACA, and then also Hugily
21 Poon [ph] who just joined us after working with the IFC
22 in Peru for many years and elsewhere. We wanted to say
23 nothing more than this that we believe that it's a
24 critical element for us to look at our own back yard as
25 it relates to food security. We hear a great deal about

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1 Haiti, and that is a very, very important country, but I
2 reality the percentage of those who are poor in Haiti as
3 compared to the rest of the hemisphere, the Haitian
4 population makes up about 5 percent of the poor in this
5 hemisphere. So as critical a need as Haiti is, we have
6 an acute need in other areas of this hemisphere. To
7 that point, we wanted to announce that the Organization
8 of American States and IACA has organized a conference
9 set here for the 1st October in Washington, D.C., which
10 will be housed at the OAS headquarters here in
11 Washington. And its theme is agriculture for
12 development and food security in the Americas. We hear
13 a great deal of talk about the critical needs in Asia
14 and Africa, and we have very few voices who are speaking
15 about the needs within this hemisphere, and we believe
16 that the civil instability that we've seen thus far and
17 that we certainly will expect to see if we don't address
18 this issue correctly will only increase and create more
19 problems for the United States and for other countries
20 as well. And so this is a bit of a drop in the bucket
21 in terms of preventive medicine but we believe that the
22 theme is very timely for the Western Hemisphere. Those
23 of you who would like to be invited to this event, we
24 anticipate that it will be perhaps standing room only
25 simply because we have space for about 250 to 300

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1 people. We'll have the ambassadors to the OAS from the
2 various countries in the Western Hemisphere there, as
3 well as a wide range of other individuals from the donor
4 community, governments as well as the private sector,
5 but we believe this is just a start or perhaps better
6 said this is a continuation of an emphasis on the part
7 of IACA as well as other organizations to raise the
8 banner within the Western Hemisphere and to provide more
9 attention and hopefully more resources in the future.
10 So if you have any questions, feel free to talk to any
11 of us, but we felt that this is an important forum to
12 make this announcement so we appreciate the time. Thank
13 you.

14 THE CHAIRMAN: Very good. Thank you. And if
15 you wouldn't mind forwarding that information to Dr.
16 Senykoff at BIFAD so we can be aware of those dates.
17 And in keeping with that same thought just I think some
18 of you have seen this save the date announcement. The
19 next BIFAD meeting will be, as it has been now for
20 several years, in conjunction with the World Food Prize
21 symposium and event in Des Moines, and the dates for the
22 -- that whole week is the 13th through the 16th of
23 October, and the BIFAD meeting is on Tuesday, October
24 13, so if you're making your calendars and need to know
25 that, that's the scheduled date for the next meeting.

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1 Further public comment?

2 MR. WILLIAMS: I would...

3 THE CHAIRMAN: If you're prepared to do it,
4 Tim, why don't you go ahead and make the announcement
5 and then we're a bit ahead of our schedule, so it's a
6 good time to do that. I did meet with the CRSP --
7 several of the CRSP directors this morning and suggested
8 that this comment be made as a matter of getting it into
9 the record of this meeting.

10 MR. WILLIAMS: Okay. I'm Tim Williams from
11 the University of Georgia, and I represent the CRSP
12 Council, and I'm charged to raise this matter which we
13 believe is a failure management issue and is relevant to
14 the failure of BIFAD in that context. Recently, we were
15 notified of a revised ADS relating to the collaborative
16 support programs which sets out to reverse BIFAD
17 negotiated terms under which the CRSPs operate. And
18 this is being applied to existing CRSPs and future CRSPs
19 by modification or inclusion in the RFAs which again are
20 subject to BIFAD consideration. And we feel that this
21 change which essentially -- it removes a lot of the
22 issues and the opportunities for the CRSPs to manage on
23 behalf of the universities with a restricted USAID
24 involvement, and that we think would have a significant
25 detraction to the value of CRSP programs and the ease

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1 with which they may operate into the future. And I
2 think that, you know, our concern is that this is raised
3 as a matter with USAID in terms of maintaining a good
4 partnership because if a negotiated gets unilaterally
5 voided, I think the partnership is done with that way.
6 Thank you.

7 THE CHAIRMAN: Thank you, Dr. Williams. Let
8 me just for the Board's benefit, the issue, and we don't
9 need to go into detail in this conversation, the issue
10 concerns the contract between USAID and individual
11 CRSPs, and the agency's role in terms of selecting and
12 evaluating the science that's done, and to what detail
13 or to what level is that. And my understanding is there
14 was a back and forth conversation between the BIFAD and
15 the agency several years ago that agreed to protocol,
16 and we have not been consulted in terms of this current
17 revision. And I think it's very appropriate this is the
18 kind of thing that the BIFAD should be involved in
19 doing, and that is working between university concerns
20 and the appropriate individuals within the USAID. So
21 what I would propose to do as chairman of the Board is
22 to engage with Karen Turner, who will be our point of
23 contact, and bring that issue up. I think if you could,
24 Dr. Williams, provide me detailed comment specifically
25 so that that conversation could be well informed before

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1 I begin it. I think I understand the issue, but I need
2 to be sure we have the appropriate background for the
3 conversation. And, again, I think it's in the goal of
4 working these things out in a collaborative partnership
5 relationship rather than getting into an adversarial
6 conversation about this. With that, I'll close the
7 period of public comment, and ask Sue Schram to come
8 again and bring her enthusiasm as she brings to us a
9 report from what by several reports was a very useful
10 SPARE meeting that was held down in sunny Florida back
11 in February. Sue.

12 MS. SCHRAM: Thanks, Bob. Well, my task in
13 this segment is to report on the most recent meeting of
14 SPARE. SPARE stands for the Strategic Partnership for
15 Agriculture Research and Education. It is the major
16 working group of BIFAD. For those of you who may be
17 new, you can recall that this group has been called
18 various things through time. It's been called JCAD,
19 it's been called JCARD, and then it was renamed SPARE.
20 It's an illustrious group with quite an effective
21 history. I can remember, I guess I'm ancient now, but I
22 can remember being back in JCARD or JCAD. I can't even
23 remember which when the actual CRSP model was proposed
24 and developed. That kind of rose up out of that group,
25 and they've tackled many issues through the years. I

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1 remember Morris Whittaker writing an incredible paper on
2 decentralization of aid authority and how that would
3 impact Title 12 programs and so on. I'm here for our
4 chair, Sandra Russo, from the University of Florida.
5 She's out of the country so she asked me just to share a
6 bit with you about what happened in Florida. We had a
7 long and a very enjoyable meeting down there hosted by
8 David Sammons [ph] and others. And at the conclusion of
9 the meeting, Patti over here from Encounter and Sandra
10 and some of us put together a couple of pages to
11 crystallize the recommendations that we were
12 highlighting for BIFAD. Sandra said, gee, you know, I
13 apologize for asking you to do this because many of
14 these things have been overtaken by events, and as you
15 will read this short summary indeed they have, so let me
16 just kind of highlight a few key points. I would go
17 actually to the suggested priorities above the little
18 chart that's on the third page because that really kind
19 of boils things down. The crux of what we were saying
20 is that given the very important events that are going
21 on today, we were hoping and recommending that BIFAD
22 will indeed become very engaged with the agency in
23 interacting and bringing the expertise of the university
24 to the fore as we proceed with these new resources in
25 agriculture development and food security that the voice

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1 really needs to be heard, and indeed a lot of this has
2 already been going on so I certainly am not saying that
3 it's not being done. Dr. Easter has been talking with
4 Karen Turner. There have been dialogues. We already
5 had the dean's meeting and so on so, as I say, a lot of
6 these things have been eclipsed by events. But we think
7 that the agency really needs to hear BIFAD's voice about
8 how HECTARE should be -- the HECTARE portion of Lugar,
9 Casey, and McCollum should be implemented. We've heard
10 some concerns here today, what does this really mean?
11 It's a little bit different from BIFAD and we have a bit
12 of a question, will BIFAD have the ability to help
13 negotiate this. I worked for a group at USDA that was
14 put together by the Congress, and then the agency had
15 quite a bit of ability to say how it would carry it out.
16 Do we have that input, it's important to get the BIFAD
17 input in there. Afghanistan and Pakistan are going to
18 be huge in the coming years, and what does this mean for
19 universities? We had an excellent session on that today
20 so the dialogue on that is definitely starting. But
21 that will also need to be an area that is guided. We
22 feel it's very important to advise on the African higher
23 education initiative that is being coordinated at APLU.
24 We had a few other -- those were kind of the main ideas.
25 Let me just highlight a couple of things under

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1 recommendations. We talked about a town hall or some
2 way to interact and plan for HECTARE. I think that that
3 dialogue has been initiated with Deborah's good report.
4 I could hear this morning a lot of things were starting
5 to be discussed at the Council of Deans meeting. That's
6 an excellent start. We had suggested that BIFAD might
7 want to have the visibility of convening a session at
8 the World Food Prize that would showcase some of the
9 university capabilities. Again, I'm not sure if that's
10 already been considered. There was a topic that came up
11 that was rather interesting in that ODP was considering
12 having an MOU with BIFAD, and we discussed that but we
13 decided that we needed more information in order to
14 advise on that. It sounded a bit odd. It seems that
15 USAID forms MOUs with universities but we didn't quite
16 understand how it would form an MOU with BIFAD. That
17 sounded like it might need a little bit of legal
18 consultation and a little bit that SPARE would need more
19 information before we certainly advised on anything.
20 The concept of the brain trust has been brought forth
21 really by the previous administration of USAID. In
22 intent, I think it's an excellent idea and the group
23 thinks it's an excellent idea to be able to have some
24 sort of way to bring the great minds of the universities
25 to the fore in terms of USAID issues, but we're not so

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1 sure whether the new administrator will still think
2 that, so we think that there should be some consultation
3 there before that's actually implemented. Let me just
4 add just quickly some other issues that have emerged
5 that weren't necessarily discussed at the Florida
6 meeting. As we see the potentially greater opportunity
7 for university contributions, I really -- the group also
8 thinks that we need to take a look at the overall
9 governing and support structures that surround this very
10 large amount of money. What does HECTARE mean? As I
11 mentioned, what does it really mean for us, and if there
12 are questions in how it is carried out how much latitude
13 do we have to help define it. Connie said this morning
14 there were broad perimeters, can we help define it.
15 Secondly, we were wondering over time how the brain
16 trust fits in vis-à-vis SPARE and BIFAD and APLU. SPARE
17 is supposed to be a working group. Of course, APLU with
18 Kerry has access and linkages to all of you in the
19 universities. How do all of these players come together
20 so we have the intent that's been talked about and the
21 intent is to tap the great brains of the university and
22 bring them in on a long-term basis or even on a short-
23 term basis but how do we do that by working carefully
24 with all the groups, what is the role of the different
25 groups, and how do we best carry that out. There are

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1 CRSP operating issues. For a long time, the CRSPs were
2 the only program that we had to worry about, and we all
3 stayed engaged with that and worried about those, and
4 they are continuing to be a large earmarked program.
5 There are issues. Tim just raised one. There are
6 issues that were identified by Deborah and Ray Miller in
7 their study that was done not so long in the past, and
8 I'm told there was a study done by Hawaii some years ago
9 where there also were issues raised. What do we do
10 about these issues? They seem to be floating around.
11 SPARE wants to be helpful. To tell you the truth, as
12 you can see, we didn't even discuss the CRSPs at this
13 meeting. So what is our role? How can we most be
14 helpful, and, furthermore, how can we settle these
15 issues? We need to have an effective structure that
16 engages, that tracks what the CRSP directors are
17 concerned about, and that takes action and that resolves
18 issues so that we can move on and work together.
19 Finally -- well, next to finally, Ray Miller, one of our
20 members, has done some excellent thinking about this
21 mind mapping concept. He sent an e-mail to some of us
22 early this morning, I believe, and I talked to him
23 yesterday. And he raises excellent points. We have
24 many reports on agricultural technologies, and what it
25 will take to solve some of these issues in the coming

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1 years. We have Dr. Uphoff's excellent report. We have
2 IFPRE. We have the National Academy report. We have
3 FAO. Again, as I said earlier, our system has never
4 lacked for intelligent reports. But what do we do with
5 all of them? How can we bring them all together, take
6 advantage of the hard work that's been done by all of
7 these people, map some of them, and then this is the
8 intellectual analysis and research aspect that we need
9 to bring back in to USAID and then say, okay, we've done
10 this and this is what we think it means for how things
11 need to move forward as you allocate these dollars. Ray
12 calls it mind mapping. I think of it as mind blowing if
13 you can think of all these variables and to possibly
14 come up with a map of how to look at all of them, but I
15 have great confidence in the minds at our university and
16 I think that could be a great contribution, or
17 universities, I should say. Finally, I'll conclude by
18 saying that we need to think about, as I said, the
19 structures as we move forward. Do we even want SPARE
20 anymore as we have HECTARE? Do we need SPARE? If we
21 have a brain trust, do we need SPARE? So we think that
22 as things move forward with HECTARE and new ideas feel
23 free to take a look at the structure. The bottom line
24 is effectiveness. What do we need one, who can best do
25 it, and what structures do we put together to make that

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1 happen? I think that's all I have, Bob.

2 THE CHAIRMAN: Any questions or comments? We
3 come to this point often where there are good ideas put
4 on the table and we don't actually do much about it.
5 And I'm anxious this time, Sue, and I think the SPARE
6 went into the meeting with the notion that they were
7 going to do serious conversation, bring forward
8 recommendations that we would do something with. So,
9 Ron, I think one of the things that we need to put high
10 on our agenda is actually responding to some of the
11 points that are being made here. So let's -- I think
12 perhaps you and I should have a discussion and then
13 broaden it to the Board. The real question that I think
14 you raise at the very end is what kind of support under
15 whatever status we have is required by this Board and
16 there are operational issues that in some sense are very
17 different from programmatic issues and there may well be
18 a need to separate those two enterprises so that there's
19 one organization that focuses on operational issues such
20 as you've identified here. And then the brain trust may
21 be more like the structure that's needed to think about
22 the vision that -- the issues that may change almost
23 monthly as different things emerge. So I think very
24 good points. My thanks to Sandra for chairing the
25 committee and also to you for bringing the report here

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1 today. For those that have been with us for a while
2 you'll recall that the BIFAD took up the question some
3 time ago, I think probably about two years ago, relative
4 to subcontractors and substitution of contractors in the
5 process of responding first RFPs and then what might
6 happen after an award was granted. And the BIFAD took a
7 position on this and sent it on to USAID and over time
8 there's been an attempt to respond to that. And I
9 think, Jean Horton, if you'll come forward and tell us
10 where we are. Is Jean with us? I don't see her. Okay.
11 John Becker is going to come up and bring us up to date
12 on that conversation.

13 MR. BECKER: It's my understanding that the
14 subcontracting issue is one of key subcontractors in a
15 proposal and then subsequently being changed to address
16 that issue. First, it's a contract issue. It's not a
17 grant-related issue although it's a problem with grants
18 as well, but the way they're looking at it is limited to
19 contracts. Secondly, they have started a pilot activity
20 and the results of those pilot examinations of this
21 process that they're trying to look at how they will
22 handle that are not complete yet. They hope to have the
23 analysis done by the fall of this year and perhaps a
24 more complete readout in the winter months. Basically,
25 I think what the approach that they're taking is they're

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1 addressing key subcontractors in terms of oversight by
2 the CTO, not unlike the address of key personnel. When
3 you make a proposal to AID and you list key personnel
4 that word is tied pretty much to those key personnel.
5 If you then change those key personnel that has to be
6 vetted subsequently with the contract officer and
7 they're looking at that type of model. There are some
8 complications to it, but at this point that's about as
9 far as they're prepared to go in the context of
10 resolving this issue, and they will be back again with
11 us hopefully at the next Board meeting.

12 THE CHAIRMAN: Do we need to send a letter
13 forward to remind that the Board is still interested in
14 this issue?

15 MR. BECKER: I don't think so.

16 THE CHAIRMAN: Okay. It's moving then. Okay.

17 MR. BECKER: And it's a much larger issue than
18 a university BIFAD issue. It's been on the plate in a
19 major way for the agency for some time.

20 THE CHAIRMAN: Very good. Comments from the
21 Board on the SPARE report or the contracting report?
22 This brings us to the end of our announced agenda other
23 than other business and announcements. Do you have
24 items, Board members, that you'd like to put on the
25 table, anything for discussion at this time? Yes,

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1 Catherine.

2 MS. BERTINI: Yes, I do. This has come in and
3 out of our discussions today especially when there was
4 mention before of accountability, but one of the things
5 that I'm hopeful that our community will be able to
6 provide support for the Administration's proposal for
7 the issue of how do we define success and how does the
8 Administration ultimately define success in their
9 agriculture development plan. And I don't know how
10 exactly we make -- BIFAD makes that offer or someone
11 does on behalf of the university community but it could
12 be a critical part of a need for the Administration so
13 I'd just like to suggest we look into it.

14 THE CHAIRMAN: Metric seems to be a very
15 simply subject. You just measure something, but when
16 you actually try to define metrics that relate to impact
17 in achieving desired goals, it's not simple to do. Yes,
18 Sue.

19 MS. SCHRAM: Thank you for raising that. I
20 was actually going to make a comment on that but I
21 thought it was way outside my purview, so I'll make a
22 comment anyway. We have been discussing in the co-op
23 community the indicators that are presented in the F
24 process for success that are then reported on to the
25 Congress. And there is a huge, thick packet of

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1 information on those indicators, and I believe it did
2 come out of the F process. So the discussion was that
3 many of our programs in the co-op community are not
4 adequately reflected in these indicators. Indicators
5 are like how many people came to your meeting, and so
6 on, not really what happened. So then we were shown
7 indicators of the micro-finance program. It's such a
8 huge program that the community took it upon itself to
9 put together a page full of indicators that are much
10 more meaningful than were reflected in the F process.
11 So I believe if there's this huge amount of money out
12 there that someone needs to take a look at those
13 indicators that are reported to the Congress and then
14 say, okay, do we need to fix these? I don't know to
15 what extent the F process is negotiable at this point.
16 It was from a previous administration. But perhaps
17 SPARE or someone from our community working with BIFAD
18 could help identify what we think success would be and
19 what the indicators are that should be reported upon,
20 and perhaps this is happening as part of the food
21 security strategy and I don't know it, but I think
22 that's really a key question because when we go on the
23 Hill people say how are you going to report on this. We
24 haven't even gotten a report from X, Y and Z how this
25 money was spent. Be sure if you're getting this much

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1 money you have a way to report your success.

2 THE CHAIRMAN: Very good. Thanks for that
3 comment. Other comments from the audience? Yes, John.

4 MR. RIFENBARK: John Rifenbark, the Office of
5 Agriculture in USAID. I'd like to support Board member
6 Bertini's request for recruiting for junior officers for
7 USAID. I brought a little handout. They're out there
8 on the table. I have copies for the Board members.
9 Essentially we have open announcements for junior
10 officers, and this page describes the program, the
11 qualifications, the selection process, the training, and
12 everything you want to know about the junior officer
13 training program. Thank you.

14 THE CHAIRMAN: Those of you that come from
15 university communities, I would just ask that you take a
16 copy of this back. I suspect that most of your colleges
17 have a placement or career services office or something
18 of that nature, pass it on to those individuals so that
19 they can become aware of the opportunities in this area.
20 Other comments? We're about to adjourn here. By the
21 way, I referred to you as doctor this morning, and you
22 very modestly said, well, no, but you have ten honorary
23 doctorates. I think that deserves Dr. Bertini.

24 MS. BERTINI: Thank you. I didn't realize
25 except that the university that gives it to a person

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1 that it counts, but, anyway, thank you, Mr. Chairman,
2 Dr. Easter. I just want to circle back again on this
3 accountability thing, the vision thing, I guess, as my
4 President once said. I think there are two different
5 ways that we should look at it, and I'm not saying we're
6 going to decide any of this now, just in terms of
7 thinking it through for the future. One is exactly that
8 each project or each entity or each thing that's funded
9 by Congress needs to have something very specific that
10 goes back, but there's hopefully now -- if we are all
11 correct in our optimistic assumption that there really
12 is \$20 billion or even \$10 million or even some new
13 attention to agriculture, significant new attention to
14 agriculture development from around the world, it seems
15 to me that we also need to think of global indicator.
16 And maybe this is for an international organization to
17 figure out, but not very complicated and not very many.
18 This is going to be really hard to say, well, you know,
19 USAID funded this piece over here and DIFID [ph] funded
20 this piece over here and Save the Children did that.
21 Everybody can do their own for their own projects, but
22 ultimately what is the end result for the people that
23 we're all trying to serve. So is there, for instance, a
24 very simple indicator like the health status of the
25 children under two, the nutritional status of the

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1 children under two or something that could be, well, we
2 really did have an impact ultimately on hunger and
3 poverty because we had an impact on that collectively.
4 So just in thinking about it, I think we need to think
5 about the specifics and the broad issue as well.

6 THE CHAIRMAN: If I understand what you're
7 saying is that there's probably a myriad of things that
8 could be measured but there's one or two that could be
9 surrogates for the whole entirety of that that would be
10 representative of success.

11 MS. BERTINI: Otherwise, we could employ every
12 evaluator in the world forever and not answer the
13 question because they would say, well, we'll have to be
14 concerned about this and how this -- I mean it would be
15 too complicated. We should have an evaluation of every
16 project, no question, but then globally how are we going
17 to say did this all work, was the G-8 really successful
18 and have we really raised a significant number of people
19 out of poverty and hunger.

20 THE CHAIRMAN: Great suggestion. Other
21 comments from the audience? Dr. Senykoff.

22 MR. SENYKOFF: I have a comment to
23 Catherine's. You know what comes to my mind, NAID, the
24 last count we had 635 indicators, I believe it is. Not
25 too distance future and a previous administrator, we had

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1 235 strategic objectives. Now we're talking about
2 global food security here. We have discussed the idea
3 of the green revolution and what went in the '60's.
4 Clearly, and as we said earlier in the luncheon, the
5 right questions were not asked because if they were we
6 probably wouldn't be standing here today to deal with
7 the food security issue. What comes to my mind,
8 Catherine, and I think you just made a very great
9 statement, and that is there was a time when we didn't
10 measure electricity the same in every country. We
11 didn't measure the volt, the ohm, or any of these other
12 scientific indicators including what we now call the
13 meter or what we call a centigrade scale. And a world
14 congress over a series of discussions came together to
15 unify and to develop on a scientific basis standards to
16 which everybody measured the same thing the same way and
17 could be repeatable in such a sense that no matter who
18 developed it even if they lost the meter stick they
19 could recreate it on scientific data. What my sense is
20 from USAID because we have indicated ourselves to death
21 -- I'm an AID person. We have more than indicator. I
22 came to the first indicator conference in 1990 something
23 and stood up and said it's going to cost us \$125 million
24 to develop a set of indicators, and people said, well,
25 how can you come up with that, and I said I just went to

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1 \$40,000 in the Philippines to develop one indicator. I
2 said just multiply that out. It won't take long. We
3 haven't achieved that. We keep developing new
4 indicators. Perhaps off of your statement the idea of
5 some form of global coordinated conference that deals on
6 global indicators to come to a unified perspective might
7 be of benefit.

8 MS. BERTINI: It's a step deeper than NDGs in
9 my view but I think that's the direction.

10 THE CHAIRMAN: Well said, Ron. Do you have
11 anything else for us before we wrap up?

12 MR. SENYKOFF: No. Only thank you to
13 everybody and to the indications of increased interest
14 in BIFAD and working with AID. We're trying hard to
15 make some changes. We've got a lot of struggles.
16 There's new energy that's being applied but we want to
17 share with you, and I can say this on behalf of all of
18 our office and others around, thank you very much for
19 the efforts that each of you have applied. The thinking
20 that's coming out of the universities, I think we might
21 be actually getting something together in the sense of
22 dual communication in both directions. I encourage
23 continue the thinking, break the box, push forward,
24 don't take anything less than the best and take no
25 prisoners.

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4 IN RE: Board for International Food &
5 Agriculture Development (BIFAD) Meeting

6

7 HELD AT: Washington, D.C.

8

9 DATE: July 29, 2009

10

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