PROCEEDINGS

OF THE

51ST ANNUAL MEETING

Caribbean Food Crops Society

51ST Annual Meeting
July 19 – July 24, 2015

Royal Ballroom Hotel Torarica,
Paramaribo, Suriname

Edited by
Ranoe S.Mangal-Jhari, Lydia Ori, Abdullah Adil Ansari, and
Wilfredo Colón

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“Food Safety, Innovation and Quality in Green Agriculture: The Way Forward to Food Security for the Caribbean”

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MESSAGES FROM OPENING CEREMONY

Welcome remarks

by

Dr. Lydia Ori, Chair of the Local Organizing Committee CFCS 2015

Honorable, Soeresh Algoe, Minister of Agriculture, Animal Husbandry and Fisheries
Professor Dr. Henry Ori, President CFCS 2015
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Dr. Raul Machiaveilli, Dean and Director of the College of Agriculture, University of Puerto Rico
Dr. Ryan Sidin, President of the Board of the Anton the Kom University of Suriname

Distinguished Guests,

Dear Collogues,

I would like to welcome you at the 51st annual conference of the Caribbean Food Crops Society in Paramaribo, Suriname. I am pleased to notice that the invited guests are present. I would also like to thank the international institutions, government organizations, non-government organizations, and all national institutions for accepting this invitation. This conference which is hosted by the Anton de Kom University of Suriname and the Ministry of Agriculture and Husbandry is organized by the CFCS. The CFCS is a Caribbean regional forum for scientists in agriculture with 51 years of experiences. This meeting is hosted after 38 years in Suriname, and is therefore a huge challenge and privilege for the Local Organizing Committee to uphold a top-notch conference and meet the expectations of all conference participants.

The organizing committee is extremely pleased to host this prestigious event in Suriname, a beautiful country in South America which is rich in natural resources (e.g. the amazon rain forest, water, and land), history, cultural diversity, and heritage. The Annual Meeting will consist of one main theme keynote address, eight sub-theme keynote presentations, and 10 sequential sessions on a variety of topics. During this conference, Caribbean scientists from all over the world will have an opportunity to meet with other scientists and present the results of their studies, as well as engage with each other in collaboration to advance Caribbean agriculture.

As an addition to the conference program, four field trips are scheduled in different agricultural parts of the country according to specific interests of the conference participants. Experimental facilities of agricultural institutions, production farms, and exhibitions will be visited with additional cultural and social programs. A farmer’s forum titled: ‘Adoption of knowledge and appropriate technology by small farmers and women’s organizations in rural areas in Suriname’ will be also held. The goal of this program is to identify approaches for adoption of
knowledge/technology to the target groups and provide them with solutions, based on what they need.

The Theme of the conference is: ‘Food safety, Innovation and quality in a Green Agriculture: The Way forward to Caribbean Agriculture’.

His Excellence, Distinguished Guests,
Dear Collogues,

Suriname is blessed with a lot of natural resources (tropical forest, fertile land, natural water bodies), rich culture, and biodiversity. The food production systems in the world are under increasing pressure to allow the world to meet sufficient, safe and healthy food, while at the same time their vulnerability increases. Climate change and loss of biodiversity are seen as a growing problem for decades but is not universally perceived as urgent. However, the probability of a radical, irreversible and possible disastrous change, as a result of the absence of adequate measures, is increasing. If we want to improve global and local food systems, including a focus on the availability of essential nutrients in it, it is necessary to innovate. The complex challenges that we face are asking for an integrated approach. To meet adequate, safe and healthy food does not only require sufficient production, but also an adequate organization of the availability of food to consumers which requires a production that makes sustainable use of available natural resources and understanding the social environment and the behavior of the people who work with those processes. We need to prepare our future and provide the new generation with a green agriculture where food safety, innovation and quality are the vehicles.

This forum provides us with the opportunity for sharing our presentations with each other, and discussing important issues including Food Safety, Biotechnology, Soil management, Green revolution with each other over the next 3-4 days.

I hope that at the end of the conference we will be able to make decisions that will be useful to forward Caribbean Agricultural development.

I look forward to listen to all your presentations.
Thank you
Honourable Minister,

Distinguish guests, Ladies and Gentlemen,

Welcome and good morning

First of all I would like to thank the Minister of Agriculture for his presence to officiate the meeting. It is with great pleasure that I speak as President on behalf of the local Organizing Committee Of this Conference. It is with equal pleasure that I note the attendance of delegates from all the member countries of CFCS. This shows the importance attached to the Society by member countries and demonstrates the importance attached by you in supporting its activities through our Annual Meetings. Producing food is the primary role of farmers and the delivery of high-quality food and food traceability should be looked upon as public interest.

The challenges facing the food industry are well documented. From adapting to the effects of climate change, to feeding a growing global population with dwindling resources, it is very clear that the degree of change that is required within food and agriculture systems, and the pace with which that change needs to be delivered, compels us to adopt new ways of doing things. From an industry perspective this agricultural revolution is being determined not only by these global environmental factors, but also by the demands of Caribbean consumers. Consumers rightly expect us to deliver quality food produced to increasingly high social, environmental and ethical standards. Leading food retailers, including our own, understand this issue well. After all, for most of the Caribbean population, retailers are the public face of the food chain. It is this unique position in the supply chain – as the interface between the industry and public – which underlines the key role retailers have to play in connecting researchers, farmers, producers and manufacturers to the markets they serve.

I am delighted to represent the Anton the Kom University of Suriname and to co-chair this 51st CFCS Annual Meeting tasked with shaping this Agri-Tech Food Security Theme. The underlying goal is sustainable intensification of our agricultural sector. This is not a term we should be scared of. It is simply about getting better productivity and yields with reduced inputs and environmental impact. The Agro Industry has already shown this can be done by, for example, using GPS and precision farming techniques to ensure more targeted application of inputs. One of the challenges posed in this conference is how we translate existing research and scientific know-how so that we move the industry forward as a whole. Agricultural science and technology is rapidly becoming one of the world’s fastest growing and exciting markets. It is driven by global changes: a rising population, rapid development of emerging economies with western lifestyle aspirations and growing geopolitical instability around shortages of land, water and energy. A technology revolution is also taking place. Breakthroughs in nutrition, genetics, informatics, satellite imaging, remote sensing, meteorology, precision farming and low impact agriculture mean agri-tech has huge potential for development. Supportive conditions include active and effective research, sustained community participation, state support and progressive policies, adequate investment and multi-stakeholder partnerships across scales and between sectors. Whereas these conditions
are met, agriculture-led growth generates substantial improvements to human well-being and helps meet a number of human development goals, including gender empowerment, poverty alleviation and food security.

The agri-tech sector and food supply chain in the Caribbean ranges from large research and development intensive multinational companies to small innovative SMEs, major retailers and family farms. We need to increase the agricultural production in the Caribbean. This increase in agricultural production can be brought about by bringing additional area under cultivation, extension of irrigation facilities, the use of improved high-yielding variety of seeds, better techniques evolved through agricultural research, water management, and plant protection through judicious use of fertilizers, pesticides and cropping practices. We need to develop a strong and vibrant food-processing sector with a view to create increased job opportunities in rural areas, enable the farmers to reap benefit from modern technology, create surplus for exports and stimulating demand for processed food. To strengthen support for the agri-tech subdivision in the Caribbean for a more productive and competitive sector for the reduction of food importation bills, we need more competent professionals entering the sector and train the existing labor force in clearer, more prioritized investment in skills; better co-ordination and proliferation of best practice and knowledge transfer; and a stable regulatory environment.

I am particularly concerned with the human development aspect in the Agri-tech sector. We need a (Caribbean) governing body to support investment in skills (sector skills council for agriculture) and a roadmap for action to:

- improve clarity and communication of available training and advice
- establish and communicate the future skills needs for the sector
- participate in the design and investment in courses and vocational training
- identify opportunities to support skills development and knowledge transfer
- Development programmes for small and marginal farmers.

As we look towards the future, we need to refine a long-term strategy that encourages the agrifood sector to exploit emerging opportunities, whilst minimizing red tape and burdensome costs.

*Our mission is to ensure the sufficient supply of safe and sustainably produced food at a quality which our consumers expect — despite the uncertainties which farmers face, such as weather, animal disease or market prices.*

This mission of delivering food security for people at home and abroad is more relevant now than ever, with rapidly increasing global population growth, evolving consumer patterns, as well as diminishing natural resources, and political instability in certain key regions. Let us therefore resolve to work together to create a coherent and ambitious vision, which reflects the best of Caribbean’s agriculture:

- Let us explore the possibilities of new markets for our high-quality Caribbean product;
- Let us enhance competitiveness and productivity by giving farmers the right type of training and support, allowing them to innovate and create jobs;
- Let us inject new vitality into rural areas by increasing the diversity of opportunities available to those who live and work there;
Let us lay the foundation for the renewal of agriculture by encouraging young farmers to get involved.

Let us develop a knowledge-based response to the Caribbean's climate change, environmental and broader sustainability challenges.

In the coming days several oral presentation will be presented and posters will be displayed and we will discuss issues with in-depth deliberations shaping the future of the Caribbean Agro sector.

Distinguished guests, ladies and gentlemen, today’s multifaceted food industry and fast changing world calls for a close partnership between countries. Globalization presents many challenges to our Region and as such we should cooperate with the aim of achieving mutual benefits. I hope this conference will highlight possible avenues for cooperation between countries and also come up with beneficial, cutting-edge resolutions, which can positively impact the agribusiness of member countries.

In closing, I wish to express my gratitude to each and all of you for your full cooperation and contribution to the 51st Annual CFCS Meeting. I take this opportunity to thank the Local Organizing Committee for organizing this meeting and for providing the necessary funding and for their diligence. The various sponsors for lunches and dinners are also thanked for their kind hospitality. I wish all the participants a very fruitful and productive meeting/conference and wish you all a good time in our country.

Thank you very much for your attention.
Good morning Excellency, ladies and gentlemen,

It is an honor and privilege to be here today, to officially inaugurate our 51\textsuperscript{st} Annual Meeting of the CFCS.

First of all, I want to recognize some very important individuals who have worked diligently and energetically to make this meeting possible.

1. Prof. Henry Ori, Member of the AdeKUS Board of Directors and President of the CFCS for 2014 – 2015,
2. the Hon. Suresh Algoe, Minister of Agriculture, Animal Husbandry and Fisheries of Suriname and Joint President of the CFCS for 2014 – 2015,
3. Dr. ir. Sidin Ryan, Chairman of the Board AdeKUS,
4. Dr. Lydia Ori, Director of the Agricultural Production Department of AdeKUS and Chairwoman of the Local Organizing Committee (LOC),
5. Mrs. Ranoe Mangal-Jhari, Programme Manager, Program Support Unit, VLIR-AdeKUS and Vice-Chairwoman of the LOC,
6. Mr. Djoemadi (Didi) Kasanmoesdiran, Ministry of Agriculture and member of LOC,
7. Dr. Abimbola Abiola, Representative of the Inter-American Institute for Cooperation on Agriculture in Suriname and member of LOC,
8. Dr. Inez Demon, Director of the Center for Agricultural Research (CELOS - Agricultural Experiment Station, AdeKUS) and member of LOC,
9. Ir. Winston Ramataursing, Development Economist, PROPLAN and member of LOC,
10. Mr. Robert Tjien Fooh, AdeKUS.

I also want to recognize the colleagues at the head table:

1. Dr. Lystra Fletcher-Paul, Food and Agriculture Organization (FAO) Country representative,
2. Mr. Barton Clarke, the newly appointed Executive Director of the Caribbean Agricultural and Research Development Institute, CARDI,
3. Dr. Raul Machiavelli, Dean, College of Agriculture, University of Puerto Rico,
4. Prof. Clement Sankat, Pro Vice Chancellor and Campus Principal of University of West Indies (UWI) and
5. Dr. J.R. Deep Ford, Food and Agriculture Organization (FAO), Subregional Coordinator for the Caribbean, our main keynote speaker.

In addition I want to present and recognize the Members of the Board of the CFCS. I want to start with:

1. Vice Chairman: Dr. Harry Ozier-La Fontaine, INRA, Guadeloupe,
2. Secretary: Mr. Jean-Louis Diman, INRA, Guadeloupe,
3. Treasurer: Dr. Alberto J. Beale, University of Puerto Rico,
4. President 2015: Prof. Henry Ori (Member of the Board of AdeKus) and Co-President Hon. Suresh Algoe (Minister of Agriculture).
Our Regional Representatives from:

1. English Caribbean, Mr. Kwame Garcia, University of the Virgin Islands, Dr. Richard Harrison, Jamaica, and Mr. Barton Clarke, CARDI, Trinidad and Tobago.
2. Spanish Caribbean, Mr. Rafael Pérez Duvergé, IDIAF, Dominican Republic and Mr. Jerry Dupuy, Private Sector, Dominican Republic.
3. French Caribbean, Dr. Isabelle Jean Baptiste, AMADEPA, Martinique, Mr. Marceau Farant, INRA, Guadeloupe, and Dr. Harry Ozier-La Fontaine, INRA, Guadeloupe,
4. Dutch region, Dr. Lydia Ori, AdeKUS, Suriname,
5. President of our Advisory Committee, Dr. Edward Evans, IFAS, University of Florida, USA.

Ladies and gentlemen by the power invested in me as the Chairman of the Board and Chief Operating Officer of the Caribbean Food Crops Society, I officially declare and inaugurate our 51st Annual Meeting. Please let’s give ourselves a big round of applause to convene our most sincere appreciation for our noble and generous dedication to ensure the success of this meeting.

Now please bear with me for the following remarks. The 68th United Nations General Assembly declared 2015 as the International Year of Soils. As agricultural scientists we are extremely aware that we need to secure and increase the biodiversity of our soils in order to maintain their sustainability and productivity to insure food security for our planet. Biodiversity is expressed in the rich mixture of organisms and life forms that make the soil their home. This richness translates to the soils resilience to withstand those factors associated with climate change.

Today we are meeting in a very unique country. Suriname is considered one of the most diverse countries on the planet. If we step out of these doors and listen to its citizen, we will hear over 10 languages. If we turn on the radio we will listen to a diversity of tunes. If we seek spiritual guidance, we can choose from all the major religions and indigenous faiths.

The CFCS also reflects with its actions this conviction to biodiversity and human diversity. For our 50 years we have strived to be inclusive, and tear down the cultural and political forces that separate us in the Caribbean and to create a professional platform in which we can express and share our research results to a wider audience. In this time frame the CFCS had meet in Suriname on two occasions, in 1967 and 1978. In 1967 we celebrated the 5th annual meeting with 55 representatives from 17 countries. The 15th annual meeting held in 1978 coincided with the 75th Anniversary of the Suriname Agricultural Experiment Station.

Now after almost four decades we are back in Suriname. This meeting was long overdue. During this time frame, we have maintained our mission to be an independent professional organization with interdisciplinary orientation and membership, which fosters communication between persons capable of contributing to the development of science, technology, and production of food crops and animals in the countries of the Caribbean Basin. We are all a testament to the efforts of those who came before us and carried this torch of scientific and cultural fellowship which we will enjoy during this week.

Thank you very much for your attendance and I wish you a very fruitful and pleasurable meeting.
Remarks
by
Professor Clement Sankat, Campus Principal,
The University of the West Indies, Trinidad and Tobago

Salutations
Thank You Chair, Dr. Lydia Ori
Hon. Soeresh Algoe, Minister of Agriculture, Anima Husbandry and Fisheries
Dr. Ryan Sidin, President of the Board of Anton de Kom University of Suriname
Dr. Wilfredo Colon, President of CFCS
Mr. Gerard Van Ouden of the EU-ACP Edulink Programme in Brussels
Prof. Dr. Henry Ori,- President of CFCS 2015 Suriname
Dr. Lystra Fletcher-Paul, FAO country representative
Dr. Barton Clarke, Executive Director of CARDI
Dr. Abimbola Abiola, IICA Representative in Suriname
Prof. Dr. Tom Vanwing, VUB, VLIRUOS representative
Dr. Hector Belle, CACHE Director
Other members and representatives of CFCS, Conference Sponsors
Conference participants, specially invited guests
Students of Agriculture
Farmers’ Organizations
Colleagues of The UWI and other Universities
UWI Alumni
Distinguished Ladies and Gentlemen

Good morning!

It is indeed with great pleasure that I bring greetings to you all on behalf of The UWI St. Augustine Campus community and by extension the regional University of the West Indies on this special occasion – the Opening Ceremony of the 51st Caribbean Food Crops Society (CFCS) Annual Meeting!

I would like to begin by expressing my sincere thanks to the President of CFCS 2015, Professor Dr. Henry Ori and his team, together with the President of the Board of Anton de Kom University of Suriname, Dr. Ryan Sidin, and the Honourable Suresh Algoe, Minister of Agriculture, Animal Husbandry and Fisheries for inviting me, and in so doing, allowing The UWI to be a part of this annual conference! A conference which the Caribbean Food Crops Society has been hosting consistently for over 5 decades!

Congratulations to the CFCS!

Ladies and gentlemen, not only is Food indispensable to human life, but according to the World Bank, agriculture based growth is at least twice as effective in reducing poverty as GDP growth in other areas. Agriculture, food production and the business side of these elements should therefore be of utmost importance to all of us in the Caribbean if we are to treat with problems of our Caribbean States - high unemployment, high food import bills, debt, competitiveness etc. In this
regard, I wish to commend the Caribbean Food Crops Society (CFCS) for staying the course to host these conferences throughout the years which has provided a unique forum for the examination of our policies, systems and practices, and our institutions in the Caribbean region and beyond. Let me also say that these meetings have not only provided a forum for sharing of new ideas that can help to strengthen the agricultural-food chain, and especially for our young researchers from various parts of the Region. This forum has also given them a chance to know other regional researchers, to network and to know more about our Regional Agriculture - its problems and possibilities.

As an Agricultural Engineer and researcher myself (and as many of you know), I have been a longstanding member of the Caribbean Food Crops Society (CFCS) for over 30 years and have attended many of their annual meetings - some very memorable such as in St. Croix (United States Virgin Islands), Puerto Rico and Antigua. These are memories that I truly cherish. Just two years ago in 2013, the 49th Annual Caribbean Food Crop Society (CFCS) Meeting, was combined with the 30th West Indies Agricultural Economic Conference and the International Society for Horticultural Sciences (ISHS) Meeting, and this was hosted by The UWI, with the kind support of the Government of Trinidad and Tobago. Our regional University of the West Indies has always seen itself as a close partner in these efforts, especially as it relates to underscoring the importance of agriculture and food production to the countries of our Caribbean region, the world over and this through our renewed Faculty of Food and Agriculture and our Faculty of Engineering at The UWI St. Augustine Campus.

This year’s overarching theme, “Food Safety, Innovation and Quality in Green Agriculture: The Way Forward to Food Security for the Caribbean” is extremely timely and relevant. It once again aptly pronounces the direction in which we in the Caribbean ought to be moving given the state of agriculture and food production in our region. I do believe that while it is important for us to focus on food security (that is, the availability of food for our people), we must not ignore:

1. The importance of Food Safety, Nutrition and Health
2. The ecological impact of our Agricultural/Food Production Systems and Sustainability;
3. The importance of utilizing technology and innovate on in food production processes and practices; and investing in R&D;
4. The socio-economic conditions of our countries of the region and the role of food and agriculture in building robust, balanced and prosperous, self-fulfilling societies.

These are all areas that I will speak about tomorrow, but notwithstanding, I want to emphasize the point that we must pay very close attention to not only how much food we produce, but how we produce this food, and the impacts of our food production practices on our environment. As we gather for the next few days to speak on Agriculture and Food, these are not issues that we must take for granted. We must learn from each other on past missteps and on new ideas, approaches and systems for food production and trade. We must remember the words of Winston Churchill who said, “Those who do not learn history are doomed to repeat it”.

Ladies and gentlemen, developing a sustainable agricultural sector for the Caribbean region requires collaboration among all stakeholders – economists, agrologists, teachers, researchers, farmers, extension officers, consumers and public and private sector representatives. We must open our space in the Region for collaboration and team work, in agricultural trade, removing all
barriers to regional trade for example, in the sharing of best agricultural/food/nutrition practices and in Research and Innovation. We must work together if we are to build sustainability and resilience in our food/agri-product systems.

In closing, I say congratulations to the organizers; I recognize the hard work of Prof. Ori and his team; the support of the Government of Suriname; and to all participants who made the effort to be here. On a personal note, it is great to be in Suriname, a land of my shared ancestry! A land which when in my early youth in the Corantyne, I often opened my eyes and looked across the brown, wide Corantyne River. I asked myself many times, what is on the other side of this river and in this densely forested, green land? Well today, 50 years and more, I am still discovering this lovely, progressive land of many tongues and cultures!

Thank you for inviting the Regional University of the West Indies to CFCS 2015, and Suriname - best wishes for a successful conference!
Message
by
Dr. Ir. Sidin, President of the Board of
the Anton de Kom Universiteit van Suriname

Honourable Minister of Agriculture, Animal Husbandry and Fisheries,

Distinguished Guests, Ladies and gentlemen

Let me begin, by welcoming you all to Suriname for the 51st Annual Meeting of the Caribbean Food Crops Society, CFCS. We are delighted to have you here to participate and share knowledge in this meeting and its corollary conference on food safety. This year’s theme is “Food Safety, Innovation and Quality in Green Agriculture”, The Way Forward to Food Security for the Caribbean” and I am proud to say that the local organizing committee has put together effective programs which offer a wide variety of activities to address the problem at hand.

It is no accident that food security is one of Suriname’s priorities in development policies in the Agribusiness. The number of people without access to sufficient, nutritious food is unacceptably high. High and unstable food prices are root causes of almost all the sociopolitical crises in the world today. Think of Tunisia, Algeria, Yemen and African countries as Egypt and, little closer to home, Haiti. Food security is crucial in achieving the hunger reduction targets of the World Food Summit and Millennium Development Goal # One.

With all the knowledge and expertise assembled at our Anton de Kom University and databases available at science institutions in countries of the Caribbean basin, we can make a difference.

Let me give you my definition of food security. Food security is about production, accessibility and nutritional value. And about ensuring that those who do not produce food have the income they need to buy it. This requires action on all fronts. Let me give a quick overview.

Farmers’ response to increasing demand and higher prices has been excellent in recent years. And of course Mother Nature has helped a lot, resulting in bumper crops and full silos. Unfortunately, ever-growing demand combined with somewhat disappointing harvests – remember the droughts and fires, the floods and the relatively low production in the Southern Hemisphere – is now causing even higher food prices. Moreover, unstable and unpredictable prices at national level are preventing farmers from consolidating their investments. In fact, the insufficient buying power of farmers producing for a local market in developing countries is preventing them from investing at all.

In other words, there is work to be done. As I just said, our most important tool for progress in countries in the Caribbean is economic growth. Only growth can help people help themselves. But conditions in our countries are far from ideal for private sector development. The private sector plays a crucial role in economic growth and food security. In horticulture, dairy farming or livestock rearing, we need to build strong public-private-partnerships. But of course, local businesses, farmers in particular, are even more important for economic growth and food security in Caribbean countries.
Caribbean countries in general, have a lot of farmers many of whom however, lack market information, banking services, credit facilities and insurance, on top of which fertilizers and quality seeds are in short supply. These are all factors crucial to the contribution of success of small farm operations in our region. A good farmer needs to be a good entrepreneur.

That is why we should be helping farmers become more businesslike, by providing;

- safety production nets and social security;
- market access and sustainable production chains;
- investment in inclusive finance and infrastructure;
- knowledge on innovation and quality and
- by sharing our knowledge about markets, organizational strategies, research and development.

We should work closely with the Ministry of Infrastructure and the Environment to achieve these goals, and – even more relevant for you – with the Ministry of Economic Affairs, Agriculture and Innovation. We need to come up with a plan to streamline the efforts of local, regional and international players in the field of food security.

Now back to you. Research institutions like the Anton de Kom University should seize the opportunity to liaise with other Universities in de Caribbean and offer solutions tailored to specific, real-life problems. Solutions devised by the countries themselves.

Ladies and gentlemen,

In his book “Common Wealth: Economics for a Crowded Planet”, the well-known economist Jeffrey Sachs argues that there is more room for optimism. Firstly, because the world population is likely to stabilize in the last century. And secondly, because technical progress will probably be faster than in the past. But, says Sachs, this is no reason to sit back and relax. He wonders whether the world is organized enough and cooperative enough to meet the challenges it faces.

I agree with Sachs that there is room for improvement. So let’s start working together today. We can feed the world in a sustainable way. Even with 9 billion people in 2050. Let’s do it.

I wish you a fruitful conference and hope that visiting Suriname may inspire you.

Thank you for listening.
Speech
by
Hon. Soeresh Algoe, Minister of Agriculture, Animal Husbandry and Fisheries

Deputy Minister, Ambassadors
Honorable guest
Distinguished speakers
Ladies and Gentlemen,

Good Morning,

May I extend a special word of welcome to all of our guest from abroad and especially from the Caribbean and I wish you all an enjoyable stay in Suriname.

Ladies and Gentlemen,

I would like to start my speech with an observation that is at the core of the problems with Agricultural health and Food Safety and that is that producers break the rules on the use of pesticides and animal medicines. And I don’t have to tell you what the consequences are on public health and export of agricultural produce. Scientific and technological advances are opening up new possibilities for farmers around the world (networked digital farm).

If everyone would follow the rules, and if we would all go for a greener agriculture life would be a lot easier but that is unfortunately not reality. Agricultural Health and Food safety are probably the most important conditions to guarantee food security for our countries and of course the entire region and the rest of the world. The only way to achieve this is when all parties (farmers, manufacturers, trade and consumer organizations) work together.

The free movement of safe and healthy food is an essential aspect of trading of food crops on export markets. It contributes significantly to the health and well-being of domestic as well as regional consumers. As a member country of WTO, FAO, WHO, OIE and the Codex Alimentarius and as a party to the conventions of the WTO/SPS, IPPC and OIE Suriname has committed itself to food safety. Achieving and ensuring food security for the total population of Suriname and ensuring agricultural health and food safety are the first 2 goals of the 7 strategic goals of our government’s agriculture policy.

As from 2003 the Ministry of Agriculture, Animal Husbandry and Fisheries have taken a lot of measures to bring our food safety to international standards. We have to name some of them.

- Set up an Agricultural health and Food safety Unit,
- Set up a Trace back system
- Updated our pesticides law
- Establish by law a Fish Testing Institute
- And implemented Capacity building and training programs.

Ladies and Gentlemen
Agricultural Health and Food Safety are complex things to achieve and to maintain. For the development of norms, standards, rules and regulations on food safety the following aspects needs to be taken into consideration:

A Chain approach. All rules and regulations should apply to all links in the chain from primary production to consumption.

- Consumer’s interest. High rate of transparency and openness, and assurance of public health is necessary to ensure consumer confidence.
- Role and Responsibilities of Public and Private sector. Each producer in the chain is fully responsible for the products they produce. The government establishes the necessary pre-condition, and provides for adequate control and enforcement mechanisms
- Science based. Measures should be based on scientific findings and international norms and standards. National procedures and regulation, and the legal system should also be taken into account. In companies, government and society, decisions must be made based on proven scientific solutions that can fulfill societal needs.
- Economic interest. Increase of agricultural produce for domestic consumption as for export to foreign markets is very important to increase the economic resilience of our Countries. If the products do not comply with the food safety, and agricultural and animal health requirements of the export markets, we will risk losing our market share and export revenues, and jobs in and linked to the agricultural sector.

Ladies and Gentlemen

Next to all other wonderful technical and interesting issues that will be presented here by the distinguished speakers I would like to ask your attention for what can be considered also important in terms of implementation of food safety strategies and policies and these are:

- Communication. We need to develop a communication plan. What are the messages, who are the target groups, How, when do we communicate, what medium and technique is used. Promoting open exchange is a way of growing knowledge.
- Develop public awareness. Training programs in Food Safety, Consumers awareness programs, research and survey
- Capacity and Institutional building. Certification programs, Quality management, survey, monitoring systems, ICT, Laboratories, Setting up of necessary institutes, Updating laws.

Ladies and Gentlemen,

Complying with the international norms and standards of Food Safety is top priority for Suriname. If everything will go as planned before the end of next year 2016 all of our laboratories will be operational under an independent Agricultural health and Food Safety Institute which will inspect and monitor the whole production chain of food from cultivation to processing to ensure that the food is safe for the public health. Helping growers produce high-quality, safe and healthy food and thereby contributing to a better life.

At last I would like to mention also that Suriname has provided facilities such as housing for the Caribbean Agricultural Health and Food Safety Agency (CAHFSA).
Honorable guests, Ladies and gentlemen I would like to wish you all, a fruitful and successful annual meeting.

Thank You.