



## PEF President's Message

2019 was a very busy year for our PEF board members, e-learning graduates and volunteers, packed full of activities, events and research. My favorite memories are the day in August when we published Betsy Teutsch's book **"100 under \$100: Tools for Reducing Postharvest Losses"** and meeting in September with many of our PEF e-learning graduates in Addis Ababa, Ethiopia during the "2<sup>nd</sup> All-Africa Postharvest Congress and Expo". We were hosted to a delicious dinner by Dr. Ali Mohammed of Jimma University and were able to spend 5 days together discussing our postharvest activities and making future plans. Thanks to all of our sponsors and donors for making these activities possible.

I wish you all a **Happy New Year 2020** and look forward to hearing from all of our e-learning graduates and sharing your news!



**Dr. Lisa Kitinoja**  
President & Founder  
kitinoja@postharvest.org

## 2019 Kader Award in Postharvest Training



**Wilberforce and Irene  
Muyomba**

Congratulations to **Irene and Wilberforce Muyomba (Uganda)** on winning the '2019 Kader Award in Postharvest Training'. They have established the **Africa Reach Foundation** with the motto to reach out to hungry, hurting, malnourished, marginalized people in Uganda and Africa at large. Some of their postharvest training activities include:

(i) Setting up demonstrational farms with postharvest centers in various parts of the country. These farms equipped with affordable postharvest technologies will showcase various enterprises and technologies geared at improving productivity, sustainability and increase shelf-life. (ii) Spearheading the formation of farming associations, cooperation and bulk sale of the produce for better bargaining power. (iii) Hands on training of smallholder farmers,

breaking down the complex agricultural science to ways understandable by smallholder farmers, translating farming principles, practices and innovations into native languages.

**Honorable Mentions 2019: Hadijah Nantambi** (EcoLife, Uganda) and

**Angelique Uwamahoro and Bernard Rwubutse** (SustainFood.org, Rwanda)

More details on Kader Award in Postharvest Training: [http://postharvest.org/kader\\_awards.aspx](http://postharvest.org/kader_awards.aspx)





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## UNFAO – Consultative Workshop



Bertha at workshop in Rome

A Consultative Workshop was organised on 10-11 December 2019 at UNFAO Building, Rome to contribute to the development of an e-learning course on ‘**Small and Medium Enterprises (SMEs) for Nutrition-Sensitive Food Systems**’. The workshop brought together experts with a stake in leveraging SMEs for nutrition-sensitive food systems. The group contributed to the identification of the curriculum topics and consider which organizations or individuals could best assist in the development of learning materials for the curriculum.

**Ms Bertha Mjawa**, member of the PEF Board of Directors, represented PEF at this workshop.

## 2<sup>nd</sup> West Africa Cold Chain Summit and Exhibition – OTACCWA

The Organisation for Technology Advancement of Cold Chain in West Africa (OTACCWA) organised the 2<sup>nd</sup> West Africa Cold Chain Summit & Exhibition 2019 on 5-6 November 2019 at Lagos, Nigeria. The theme of the event was ‘**Harnessing cold chain technologies for postharvest loss reduction, effective healthcare delivery and economic growth in West Africa**’. Several cold chain experts, traders, farmers, academicians and researchers attended the summit to discuss the current status and future prospects of cold chain industry in West Africa.

**Dr Olubukola Odeyemi** (2013 PEF e-learning graduate) presented on topic ‘**Cold Chain Development Success: Special Considerations when handling fresh produce**’. [[Download the OTACCWA presentations](#)].



Olubukola at the summit in Lagos

## Postharvest 2020 – 9-13, November 2020

**POSTHARVEST 2020**

Dates: **9-13<sup>th</sup> November 2020**

Location: Rotorua Events Centre, Rotorua, New Zealand.

Postharvest 2020, the 9th ISHS International Postharvest Symposium, is scheduled to be held in Rotorua, New Zealand, in November 2020.

For more details on abstract submission [[Click here](#)]





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## Chilling Prospects: Tracking Sustainable Cooling for All 2019

Chilling Prospects: Tracking Sustainable Cooling for All 2019 is the second report in the Chilling Prospects series and serves as a follow-up to the inaugural report's wake-up call, defining and quantifying the global cooling access challenges as well as need to develop cold chain consistent with the Paris Agreement on climate change and the Kigali Amendment to the Montreal Protocol.

The findings outlined in this report shows that 1.05 billion people face serious cooling access risks. The report offers a set of recommendations for specific actors to immediately accelerate the progress on access to sustainable cooling. [\[Download the full report\]](#)

[\[Other publications of Chilling Prospects Series\]](#)



# 2019

## CHILLING PROSPECTS: TRACKING SUSTAINABLE COOLING FOR ALL



#CoolingForAll

**KIGALI**  
COOLING EFFICIENCY PROGRAM

## Reducing Food Loss and Waste: Ten Interventions to Scale Impact



### Reducing Food Loss and Waste: Ten Interventions to Scale Impact (Hanson et al. 2019)

The report was jointly prepared by World Resources Institute (WRI) with support from The Rockefeller Foundation and in collaboration with food loss and waste experts from Iowa State University, the University of Maryland, the Natural Resources Defence Council (NRDC), the United Nations Environment Programme (UNEP), Wageningen University & Research (WUR), and the Waste & Resources Action Programme (WRAP).

[\[Download the full report\]](#)

## 2nd International conference of ESPHM

2nd International conference of Ethiopian Society of Post-harvest Management (ESPHM) with a theme of "Post-harvest Management as a Leverage for Agro-Processing, Export Promotion and Food Security" was organised at Addis Ababa, Ethiopia from December 06 to 07, 2019.

PEF e-learning graduates from Ethiopia attended and presented in the conference.

Dr. Sirawdink Fikreyesus, Gezai Abera (PEF graduate) and Dr. Ali Mohammad (L to R) at the conference.







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## Global LEAP Awards – Hadijah Nantambi Ssekyondwa, Ecolife



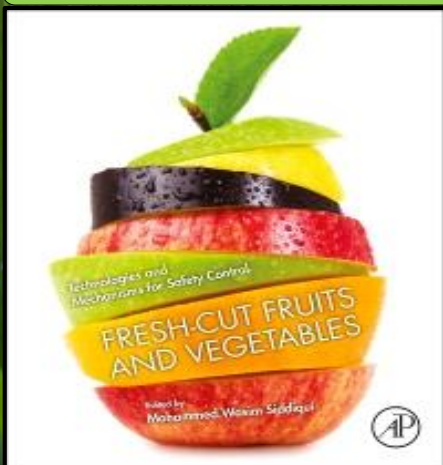
Ms Hadijah (left), Founder of Ecolife foods

**Ecolife Foods**, co-founded by Ms. **Hadijah Nantambi Ssekyondwa** (2016 PEF e-Learning graduate) was selected as one of four finalists in the Global LEAP Awards Off-Grid Cold Chain Challenge. They developed a design, built and tested an energy-efficient and cost-effective solar powered cold room in Uganda. The room provides off-grid cold storage that can keep fruit and vegetables fresh for over a week.

This makes for easier transport to cities, better quality produce and, as a result, better prices for producers. They have used PET bottles as insulation material and tested the efficiency of the cool room with different fruit and vegetables.

[\[Click here to read complete news\]](#)

## New Book - Fresh-Cut Fruits and Vegetables

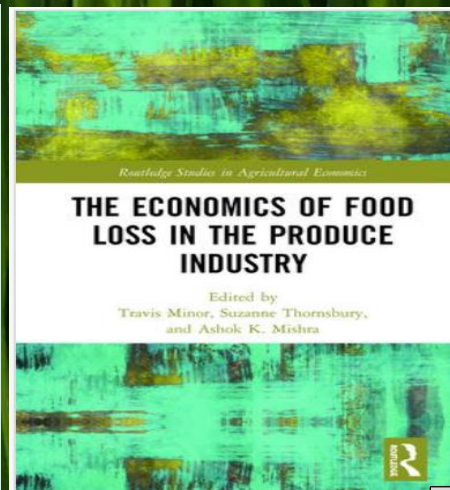


New book "**Fresh-Cut Fruits and Vegetables: Technologies and Mechanisms for Safety Control**" published by Elsevier, which covers conventional and emerging technologies in one single source to help industry professionals maintain and enhance nutritional and sensorial quality of fresh-cut fruits and vegetables from a quality and safety perspective.

The book was edited by PEF Board Member Dr. **Md. Wasim Siddiqui**.

## New Book - The Economics of Food Loss in the Produce Industry

The book '**The Economics of Food Loss in the Produce Industry**', provides analysis on current food loss literature and also presents new empirical research. It draws lessons from those who have encountered these issues by focusing on how past regional or national estimates of food loss have been conducted with varying degrees of success. It includes chapters on several themes: understanding food loss from an economic perspective; efforts to measure food loss; case studies across commodities within the produce industry; and economic risks and opportunities.







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## Food System Vision Prize

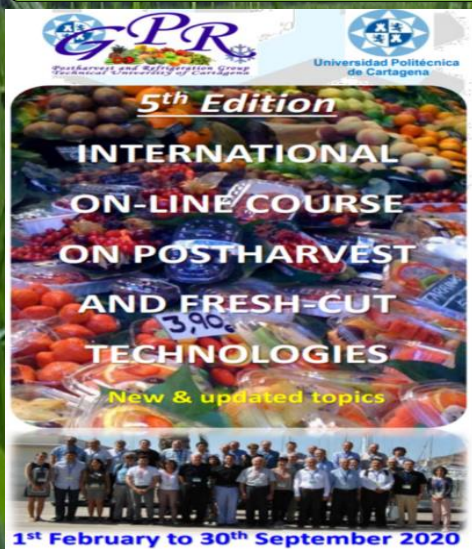
The Food System Vision Prize with a total of US\$2 million in prize money and a global network of partners, the Food System Vision Prize is an invitation for organizations, companies, governments, and other entities around the world to develop inspirational, concrete Visions for the food system of the future.



The Prize, launched by The Rockefeller Foundation in partnership with SecondMuse and OpenIDEO, is driven by a central question: “How might we envision regenerative and nourishing food futures for 2050?”.

For more details check: <https://www.foodsystemvisionprize.org/>

## 5th International on-line Course on Postharvest & Fresh-cut Technologies



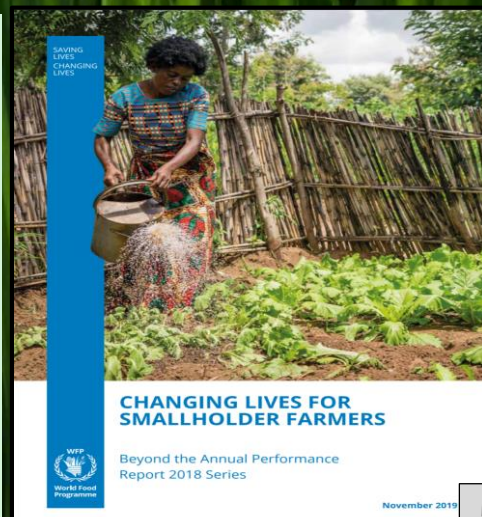
5<sup>th</sup> International on-line Course on Postharvest & Fresh-cut Technologies’ that will be soon offered by the Universidad Politécnica de Cartagena, in Spain. Instructors for the program are 41 prestigious professors from 20 countries and 30 universities/research centers. The course material consists of 50 recorded videos of 30 min length each. Each participant can watch them at their convenience as many times as needed, learn at your own pace and finish the course from 1<sup>st</sup> February to 30<sup>h</sup> September 2020.

More information: <http://www.upct.es/gpostref/>

Contact: [postharvest@upct.es](mailto:postharvest@upct.es)

## Changing Lives for Smallholder Farmers – World Food Programme (WFP)

Changing Lives for Smallholder Farmers - WFP Beyond the Annual Performance Report 2018 Series. The report highlights the work done by the WFP in 2018 to specifically support smallholders, including the range of activities and platforms used to effect the change. The report also reviews WFP plans going forward. The complete set of snapshot reports focus on the WFP's progress towards Zero Hunger by 2030 in five areas: school feeding, aviation services, country capacity strengthening, smallholder farmers, and contributing to peace.







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## Food Loss and Waste Reduction Conference, Vatican City - Final Statement



The Food Loss and Waste (FLW) Reduction Conference was held in Vatican City on 11-12 November, 2019. The conference was motivated by the UNSDGs as well as by the Encyclical “Laudato Si” where Pope Francis calls for changes to overcome the “throwaway culture.” **Dr Jane Ambuko** (2012 PEF graduate) participated in the conference. The final statement of the conference highlighting the motivation, objectives and possible ways to tackle the FLW is released on the website the Pontifical Academy of Sciences. [\[Click here to view the statement\]](#).

## Some Postharvest Related Videos



Drying vegetables using a direct solar Dryer



How to build a Solar Grain Dryer



Solar Dryer - Veg & fish (English subtitles)






Tour – New Postharvest Center, Rwanda






## PEF Graduates updates

-  **Emmanuel Ayua** (2014 PEF graduate), passed his PhD qualifying exams at Purdue University, USA in May 2019. As part of the Food Processing Lab project his team is now working at the University of Eldoret (Kenya) where his team has set up a cereal extrusion processing center to prepare instant *Ugali* (ready to eat, pre-cooked maize flour plus boiled hot water) – News coverage : <https://youtu.be/Q8b0Ru9DadE>
-  **Vijay Yadav T** (2012 PEF graduate) has been appointed as Assistant Professor in Amity Institute of Horticultural Studies & Research (AIHSR), Amity University Uttar Pradesh, India. He recently completed his PhD in Postharvest Physiology from Curtin University, Australia.
-  **Sofia Flores Vivar** (2014 PEF graduate) completed her MS from the University of Florida, USA and started her PhD program at KU Leuven, Belgium.



-  **Esa Abiso** (2014 PEF graduate) won 'Excellent Paper Award' at Jiangsu University 9<sup>th</sup> Sino-foreign Postgraduate Academic Forum.

Esa Abiso (5<sup>th</sup> from left) receiving Excellent Paper Award



-  **Dr Diane Barrett** (PEF Board of Director) (centre) visited India in October and met **Vijay Yadav** (left) & **Dr Neeru Dubey** (Amity University, India) (right) during her visit.



Alex Mushiga (2016 PEF graduate, in white coat) working with the Rwanda Postharvest Losses Solutions Cooperative (POSCO)

## Postharvest Tool Kit and Services (PTKS)

**Ms Fanny Ipinge** (2014 PEF graduate) started PTKS to supply tool kits for promoting postharvest management. The kit includes 23 essential postharvest tools and materials. For more information about the company please contact: Fanny Goosen-Ipinge (MSc. International Horticulture & Marketing, Postharvest Consultant).  
e-mail: [fannyipinge@gmail.com](mailto:fannyipinge@gmail.com). Phone: +31629620302 / 0031135342636





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*Wish you a cheerful year ahead filled with  
beautiful moments, joy and abundance.  
Happy New Year 2020*

The Postharvest Education Foundation

Red Rock Canyon, Nevada, USA

## PEF's 'Global Postharvest E-learning Program' is Free to all!

Check the website for further details and register by completing Assignment #1:

[http://postharvest.org/postharvest\\_earning\\_program1.aspx](http://postharvest.org/postharvest_earning_program1.aspx)

### Postharvest Queries:

Mail us at [postharvest@postharvest.org](mailto:postharvest@postharvest.org) any postharvest related questions you wish to be answered.

### SUPPORT OUR WORK

The Postharvest Education Foundation is a 501(c)(3) non-profit public charity with aim to reduce global food losses, which are as high as up to 50%.

Donations to The Postharvest Education Foundation are used for 3 major program activities:

1. Postharvest tool kit: For e-learners from developing country who complete their training (US\$400 each).
2. Travel Support: To pay for the travel expenses to attend international postharvest training programs (air tickets, hotels, food, local transport costs) (Estimated as \$1500-\$2000 per e-learner).
3. Kader Awards: Awarded annually in honour of Dr Adel A. Kader to PEF Alumni, who show greatest impact in providing trainings for clientele at different levels (\$500).

Kindly check our website (<http://www.postharvest.org/donate.aspx>) for other alternate ways to donate.

Thanks in advance for your tax-deductible donation, which will be used to train young horticultural professionals via low cost internet based programs, with reading assignments, fieldwork on improved practices for postharvest handling, storage, processing and marketing.

Email us at [newsletter@postharvest.org](mailto:newsletter@postharvest.org) to subscribe to the PEF newsletter.

### Contact Us:

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