



PEF President's Message



Dr. Vijay Yadav Tokala
President

vijayyadav.t@postharvest.org

The year 2021 has been yet another difficult year and has pushed a huge proportion of the global population into difficult situations. Many of us had to deal with painful news. However, the silver lining is that world has realized importance of nutrition, self-care and even food losses received a lot of global attention.

The book on cold chain management edited by Dr Majeed Mohammad and I is now published and available for purchase. Thanks to Dr Deirdre and Dr Lisa for constant encouragement and special thanks to all the authors for their wonderful contributions.

This year we are planning for a whole set of new training activities, grants and awards. Any donations to The Postharvest Education Foundation to support our work would be greatly appreciated (<http://postharvest.org/donate.aspx>) and sincere gratitude to those who have already contributed.

Wish you all a healthy and very best year ahead.

Tracking progress on food and agriculture – related SDG indicators 2021

The Food and Agriculture Organisation of United Nations (UNFAO) has published a report that discusses the progress of the selected indicators, for which it is a contributing agency and have key implications for food and agriculture across the SDGs. It has adopted a new Strategic Framework with SDG 1,2 and 10 as core pillars.

The report points out that the Covid-19 pandemic has severely affected every aspect of human life and the world has gone off-track in meeting the SDGs targets. The pandemic situations have also pushed many into chronic hunger and it is estimated that the global hunger population, after remaining virtually stagnant for five years, have increased from 8.4 % to 10.4 %, just in one year.

Read the full report at:

<https://www.fao.org/3/cb6872en/cb6872en.pdf>



Cooperative Ventures Awards

Pali A. Mazalo Chantal – Togo



Group of trainees with Chantal (extreme right)



Demonstration of solar drier



Blanching chilli pepper



Solar drying chilli pepper



Packaging dried chilli

Chantal Pali organised five days training program for 23 women at the farm of the 'Terre Benie Cooperative'. The training attendees were from three cooperatives 'Dieu est Grand', 'Assigno' and 'Mawoussi'. The training included the topics of postharvest handling of chilli and okra to reduce the losses and value-addition by solar drying.

'Terre Benie Cooperative' carried out the follow-up and also promised to plead with certain local organizations for providing solar dryers to these women for their activities.

Read the full report (in English and French) at:

http://postharvest.org/Chantal_Pali_Eng_French_PEF_CV_Award_Report.pdf



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Abdi Keba Wirtu - Ethiopia



Training on postharvest handling of Avocado fruit in Ethiopia

Abdi Keba conducted training program on the best postharvest handling practices of avocados to the farmers in Southern part of Ethiopia. The training program was offered at Wondo-Genet Agricultural Research Center of Ethiopian Institute Agricultural Research. About fifty trainees (model farmers) were selected with the help of the local agricultural extension workers. Five researchers from a research center working on postharvest research area, agricultural extension and food science also attended the training. The training included presentations followed by group discussions and feedback sessions.

For the full report : http://postharvest.org/PEF_CV_Grant_Report_Abdi.pdf

3rd West Africa Cold Chain Summit and Exhibition (WACCSE)



Dr. Odeyemni (centre) at 3rd West Africa Cold Chain Summit and Exhibition

The 3rd WACCSE was successfully conducted in October 2021. It is the only cold chain event in West Africa where businesses gather to find solutions and share best practices for managing the complexities of the perishable food system and pharmaceutical supply chain. **Dr Olubukola Odeyemi** presented on the topic- “Developing Human Capital for the West African Cold Chain Industry”.



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Lucy Asare-Baah - ZECC extension project at Tuskegee, USA



ZECC constructed as part of Lucy's research


Lucy Asare-Baah (2016 PEF Graduate) is from Ghana and studying at Tuskegee University, USA, where she is currently doing her doctoral fieldwork on Zero Energy Cooling Chamber (ZECC) storage for small scale vegetable growers in Alabama. She was awarded the 'Hudson Global Fund' from Global Cold Chain Alliance (GCCA) to construct 3 ZECCs in 3 counties and PEF funded her to construct the 4th ZECC. We wish her the best for research work and hope the results will be useful for small scale vegetable growers.

ECHO International Agriculture Conference



**Postharvest management
to ensure food security and
the critical role of capacity building**

Vijay Yadav Tokala, PhD
President
The Postharvest Education Foundation,
La Pine, Oregon 97739, USA
www.postharvest.org



Empowering people to reduce food losses...



**The 28th Annual ECHO International
Agriculture Conference**
November 16, 2021



ECHO International Agriculture Conference (Online Event) was organised on November 16, 2021. ECHO has brought together networks of like-minded individuals devoted to eradicating hunger and improving lives through agriculture and community development. **Dr Vijay Yadav** represented PEF and presented on the topic - "**Postharvest Management to Ensure Food Security and the Critical Role of Capacity Building**".

The break-out session included discussions on ways to identify suitable technologies for postharvest management as well as the role of extension education and capacity building in the implementation of the technologies to reduce food losses.



Climate Actions through ICAP Implementation: Setting priorities for the Decade of Action



The Alliance for an Energy Efficient Economy (AEEE) successfully organized a one-day-event on 25th November 2021 - “Climate Actions through ICAP Implementation: Setting priorities for the Decade of Action” at Indian Habitat Centre, New Delhi. **Dr Vijay Yadav** represented The Postharvest Education Foundation, discussed about the importance of the cold chain in horticultural produce and mentioned need for produce-specific cold chain development. He also focused on the role of capacity building in efficient adoption of cold chain management. Other panellists were Mr Asheesh Fotedar (NCCD), Mr Angshuman Siddhanta (UNEP), along with moderator Dr Satish Kumar (AEEE).

Key discussion points: 1. Overview of cold chain in #India; 2. Implementation challenges in the sector & role of various actors to further cold chain development; 3. Way forward to advance #energy efficiency in cold chain development in India, including state building capacity.

Report: <https://aeee.in/wp-content/uploads/2021/11/Enabling-Cold-chain-Infrastructure-Development-in-India.pdf>

Postharvest training program – University of Abomey-Calavi



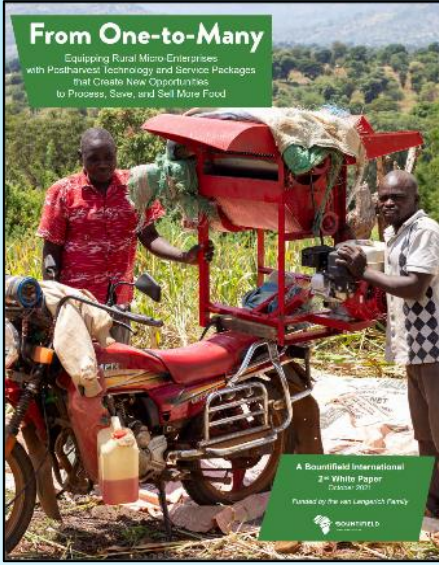
Guy Kudjogbe, PEF Board of Director, was invited to conduct postharvest training workshop for master level students of Faculty of Agronomic Sciences at University of Abomey-Calavi, Benin. (November 2021).



Entrepreneurs Create Positive Impact for Farmers

From One-to-Many

Equipping Rural Micro-Enterprises with Postharvest Technology and Service Packages that Create New Opportunities to Process, Store, and Sell More Food



A Bountifield International
2nd White Paper
January 2022
Funded by the van Lengerich Family
Bountifield International

Bountifield International published a white paper titled 'From One-to-Many: Equipping Rural Micro-Enterprises with Postharvest Technology and Service Packages that Create New Opportunities to Process, Store, and Sell More Food'. This report includes the Phase I results from its program in Kenya, entitled Mavuno Bora, (Swahili for better harvest), funded by the van Lengerich family.

This paper describes key learnings to-date while focussing on the strategies and approaches to achieve greater technology adoption and access, more inclusive value chains, fair returns, and food security for rural communities. The positive impacts of the rural entrepreneurs – including women and youth were highlighted.

Read the article at <https://bountifield.org/entrepreneurs-create-positive-impact-for-farmers/>

ADMI celebrates 10 years

ADMI Institute for the Prevention of Postharvest Loss, University of Illinois celebrated 10 year anniversary last month and their annual report commemorating the history of postharvest loss capacity building, innovation scaling, and research facilitated by ADMI and our implementing partners.

ADMI is offering series of free webinars in 2022 on three critical areas within postharvest loss reduction i.e., successful scaling of postharvest loss innovations, better postharvest management through capacity building and using food perspectives in policy to address postharvest losses.

Website: <https://emails.illinois.edu/newsletter/1094631829.html>



Congratulations!!!

Amanda Brondy, Senior Director, International Projects, Global Cold Chain Alliance (GCCA) for successfully completing all the assignments of PEF E-learning course. We welcome her to the PEF family.

Albert Fosso (2016 PEF graduate) has been international consultant for UNFAO project in Comoros islands. He has successfully completed training programs on topics of plant production and postharvest handling.





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PEF Short video challenge

Great chance for the PEF E-learning graduates to win 1000 US\$. Submit a four-minute video demonstrating any specific issue associated with postharvest losses in a major crop of your local area and suggest the possible solutions for it. Last date of submission: **March 31, 2022**.

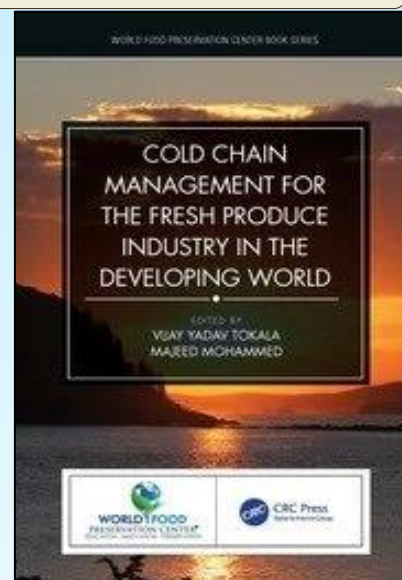
For details about the competition check: http://postharvest.org/PEF_Video_Challenge.pdf

Cold Chain Management Book

We are very happy to inform our network that the book titled - "Cold Chain Management for the Fresh Produce Industry in the Developing World" edited by PEF Board members **Dr Vijay Yadav Tokala** and **Dr Majeed Mohammed** is now published and available for ordering.

This book comprises of chapters contributed by the experts and practitioners of cold chain development in developing countries. The authors in the book provide the scenario of cold chain management in the world and discuss the importance of the cold chain as well as the different options and innovations of cooling systems. Chapters also include case studies, success stories, capacity building activities, and other opportunities in cold chain development. Special thanks to all the authors and PEF supporters for the wonderful contributions and making the book project possible.

For more details : <https://bit.ly/3JTWzL9>



Some interesting publications

Lu, S. et al (2022). Quantifying supply chain food loss in China with primary data: A large-scale, field-survey based analysis for staple food, vegetables, and fruits. <https://www.sciencedirect.com/science/article/pii/S0921344921006157>

de Brauw, Alan; and Bulte, Erwin. (2021). African farmers, value chains and agricultural development: An economic and institutional perspective. Palgrave Studies in Agricultural Economics and Food Policy. Cham, Switzerland: Palgrave Macmillan. <https://doi.org/10.1007/978-3-030-88693-6>

Kok, M.G, R.B. Castelein, J. Broeze and JCMA Snels (2021). The EFFICIENT Protocol. A pragmatic and integrated methodology for food loss and waste quantification, analysis of causes and intervention design. Wageningen University & Research. <https://drive.google.com/file/d/1I-Vr67x1Tw9muLMFD0PtKZcnXXkVadF5/view>

Global Alliance for the Future of Food and Salzburg Global Seminar. Reflections on The Salzburg Process on the Climate Emergency & the Future of Food: Transformation for a 1.5°C World. n.p.: Global Alliance for the Future of Food and Salzburg Global Seminar, May 2021. https://futureoffood.org/wp-content/uploads/2021/05/SalzburgProcessDoc_50621.1.pdf

Duguma, H. T. (2021) Potential applications and limitations of edible coatings for maintaining tomato quality and shelf life. <https://ifst.onlinelibrary.wiley.com/doi/10.1111/ijfs.15407>



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Dzokou valley, Nagaland, India

*Wish you a cheerful year ahead filled with
beautiful moments, joy and abundance.
Happy New Year 2022*



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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_elearning_program1.aspx

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%.

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

- Postharvest tool kit: For e-learners from developing country who complete their training (US\$400 each).
- Postharvest Closing Workshops for e-learning graduates (Estimated as \$1200 per e-learner).
- 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).

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.

Mail us at postharvest@postharvest.org any postharvest related questions you wish to be answered.

Email us at newsletter@postharvest.org to subscribe to the PEF newsletter

Contact Us:

The Postharvest Education Foundation

PO Box 38, La Pine, Oregon 97739 USA

Office telephone: 1 (916) 708 7218

Email: postharvest@postharvest.org

Website: www.postharvest.org

Connect with us on:

