

## PROGRAMME OF SEAVEG - 2021

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**DATE/TIME  
(GMT+7)**

**PROGRAMME**

**November 18, 2021 (Thursday)**

**Venue: Karaton Ballroom**

08.00 - 09.00

Registration

08.30 - 09.00

Profile Agricultural Development Polytechnic of Yogyakarta  
Magelang  
Art Performance

### **SEAVEG – 2021 OPENING CEREMONY**

**Venue: Karaton Ballroom**

09.00 - 09.05

Singing National Anthem “Indonesia Raya”

09.05 - 09.15

**Remark of the committee**

Bambang Sudarmanto

Director of Agricultural Development Polytechnic of  
Yogyakarta Magelang

09.15 - 09.25

**Welcoming Remark and Opening:**

Dr. H. Syahrul Yasin Limpo, S.H., M.Si., M.H.  
Minister of Agriculture, Indonesia

09.25 - 09.50

**Welcoming Remark**

Dr. Prem Nath

Chairman SEAVEG/Chairperson Vegetable Science  
International Network (VEGINET), India

09.50 - 10.00

Coffee Break

Profile of Agricultural Development Polytechnic

### **SESSION 1: PLENARY**

**Venue: Karaton Ballroom**

*Chairperson: Dr. Detia Tri Yunandar, Bogor Ag-DP, Indonesia*

10.30 – 11.00

**Keynote 1**

**Policies on Horticulture Production during Covid-19  
Pandemic in Indonesia**

Dedi Nursyamsi

Indonesian Agency for Agriculture Extension and Human  
Resources Development, Ministry of Agriculture, Indonesia

11.00 – 11.30

**Keynote 2**

**Vegetables Ensures Nutrition Security**

Prem Nath

11.30 – 12.00	Vegetable Science International Network (VEGINET), India <b>Keynote 3</b> <b>Vegetable Research Matters for Southeast Asia</b> Marco Wopereis DG of World Vegetable Center (WorldVeg, Taiwan)
12.00 – 13.00	Lunch Break Profile of Agricultural Development Polytechnic
13.00 – 17.30	Parallel Oral Sessions

ORAL SESSIONS

**Theme 1. Hunger and Malnutrition**

**SESSION 2**

Venue: **Karaton 1**

Chairperson: **Dr. Awang Maharijaya, S.P., M.Si, IPB University**

13.00 – 13.30	<b>Invited 1</b> <b>The State of Indonesian Food Security and Nutrition</b> Purwanta, Manokwari Agricultural Development Polytechnic, Indonesia
13.30 – 14.00	<b>Harvesting fresh Moringa leaves by leaf picking method produces the highest yield</b> <i>Ketty Suketty, Juang Gema Kartika, Aisya Risanda Rahmadyahningrum, Bogor Agricultural University, Indonesia</i>
14.00 – 14.15	<b>The Journey of TSS (True Shallot Seed) in Indonesia - Breeding, Seed Availability, Cultivation, and Nutritious Compound</b> <i>Adriyanita Adin, Rohim Firdaus, Haerudin, Fatkhu Rokhman, Asep Harpenas, PT. East West Seed, Indonesia</i>
14.15 – 14.30	<b>The Effect of Rabbit Urine Fertilizer Application on the Growth of Water Spinach (<i>Ipomoea Aquatica</i>)</b> <i>Budi Wijayanto, Anang Sucahyo, Geraldo Adinugra Rimartin, Yogyakarta-Magelang Ag-DP, Indonesia</i>
14.30 – 14.45	<b>Stunting: Family Nutrition Fulfillment Implementation Through Integrated Farming (Case Study In Food Estate At Giriroto Village, Ngemplak District, Boyolali Regency)</b> <i>Rohmat Hidayat, Moch Alfino Ridho Kuncoro, Office of Agriculture, Food, Marine and Fisheries Bantul, Indonesia</i>
14.45 – 15.00	<b>Development of molecular markers for hybridity testing in Mangalore melon through transferability of SSR markers from muskmelon</b> <i>Shivadatta Kumbar, Raghavendra Gunnaiah, Ratnakar M Shet, Shantappa Tirakannanavar, Satish D, RC Jagadeesha, Vilas D. Gasti, University of Horticultural Sciences, Bagalkot, India</i>
15.00 – 15.15	<b>Q and A</b>

15.15 – 15.30 Coffee break  
Profile of Agricultural Development Polytechnic

**Theme 2. Food and Nutrition Security**

**SESSION 3**

Venue: **Karaton 1**

Chairperson: **Dr. Endah Puspitojati, S.TP., M.TP, Yogyakarta-Magelang Ag-DP**

15.30 – 16.00 *Invited 2*  
**Closing Nutrient Cycle and Improving Resilience in Vegetable Production under Global Change**  
Stefaan De Neve, Ghent University, Belgium

16.00 – 16.15 *Invited 3*  
**Brassica Vegetables: Nutrition and Health Benefits and Innovative Market Exploitation for Dietary Diversity**  
Joao Silva Dias, University of Lisbon, Portugal

16.15 – 16.30 **Access of small farmers indigenous vegetables to high value markets**  
*Awang Maharijaya, Endang Gunawan, Heri Harti, Anas Dinurrohman Susila, Bogor Agricultural University, Indonesia*

16.30 – 16.45 **Factors affecting the household food waste of vegetables and fruits in Sleman district, Yogyakarta, Indonesia.**  
*Reno Budi Setiawan, Irham, Any Suryantini, Universitas Gadjah Mada, Indonesia*

16.45 – 17.00 **Development of climate resilient home garden model for year round production for improving resource-poor household food and nutritional security in Eastern India**  
*Kumari Shubha, Anirban Mukherjee, Ujjwal Kumar, Tanmay K. Koley and Arbind K. Choudhary, ICAR Research Complex for Eastern Region, Patna, India*

17.00 – 17.15 **Development of anthocyanin rich and high yielding new Dolichos bean variety: A sustainable approach towards nutritional security**  
*Meenu Kumari, P. Naresh, G. C. Acharya, R. S. Pan and Arun Kumar Singh, ICAR Research Complex for Eastern Region, Patna, India*

17.15 – 17.30 **Q and A**

ORAL SESSIONS

**Theme 2. Food and Nutrition Security**

**SESSION 4**

Venue: **Karaton 2**

Chairperson: **Dr. Tri Ratna Saridewi, S.Pt., M.Si , Bogor Ag-DP**

- 13.00 – 13.30 ***Invited 1***  
**Changing Consumption Pattern of Vegetables in Asia: Implications on Nutritional Security**  
Chengappa P.G., University of Agricultural Sciences, India
- 13.30 – 14.00 ***Invited 2:***  
**Vegetables for Food Security and Economic Growth**  
Idha Widi Arsanti, Indonesian Agency for Agriculture Education, Indonesia
- 14.00 – 14.15 **Effects of various drying methods on the physicochemical properties of telang flower (*Clitoria ternatea L.*)**  
*Endah Puspitojati, Novia Aristi Rahayu, Nur Fatimah, Bambang Sudarmanto, Yogyakarta-Magelang Ag-DP, Indonesia*
- 14.15 – 14.30 **Optimization of Lettuce Production and Growth through Hydroponic Planting System**  
*Hamyana, Budianto, M.Imron Bukhori, Malang Ag-DP, Indonesia*
- 14.30 – 14.45 **Shallots (*Allium cepa var. Ascalonicum*): Inhibitors Formation of Carcinogenic Compounds, Polycyclic Aromatic Hydrocarbons (PAHs) in Charcoal-Grilled Goat Satay**  
*Eko Saputro, Lilik Eka Radiati, Warsito, and Djalal Rosyidi, University of Brawijaya, Indonesia*
- 14.45 – 15.00 **The Development Model of School Gardens Through Vegetables Go to School (Vgts) Activities for Improving Nutrition of Early Children in Batang Regency, Central Java Province**  
*Mochamad Zakky, Heri Suliyanto, Temy Indrayanti, Rina Syawal, IPB University, Indonesia*
- 15.00 – 15.15 **Q and A**
- 15.15 – 15.30 Coffee break  
Profile of Agricultural Development Polytechnic

## SESSION 5

Venue: **Karaton 2**

Chairperson: **Dr. Deden Derajat Matra, S.P., M.Agr., IPB University**

- 15.30 – 16.00 ***Invited 3***  
**Modern Farming Practices of Vegetables: A Current Practical Implementation of Modern Green House to Support Food and Nutrition Security**  
Detia Tri Yunandar, Bogor Agricultural Development Polytechnic, Indonesia

- 16.00 – 16.15 **Farmers' Motivation in Controlling Dead Shoot Disease (*Phytophthora porri*) of Shallot (*Allium cepa*) in Onanrunggu District, Samosir Regency, Indonesia**  
*Mahmudah, M. Jufri, Yuliana Kansrini, Amelia Zuliyanti Siregar, Jhon Rizki Oktomi Purba, Medan Ag-DP, Indonesia*
- 16.15 – 16.30 **Characterization of Two New Varieties Curly Chili (*Capsicum Annuum L.*) for Quality Standard**  
*Qanytah, Dondy S. Anggono, Wisnu Broto, Indonesian Center for Agricultural Postharvest Research and Development, Indonesia*
- 16.30 – 16.45 **Design and Manufacture of Small Centrifugal Floating Pump to Increasing Effectiveness of Watering Shallots**  
*Athoillah Azadi, M. J. Tjaturetna Budiastuti, Novi Sulistyosari, Indonesian Agricultural Engineering Polytechnic, Indonesia*
- 16.45 – 17.00 **Growth and Yield Response of Shallot (*Allium cepa L. Aggregatum Group*) Cultivars from Seeds Propagation to Paclobutrazol Dosage**  
*Prahesti Elizani, Endang Sulistyaningsih, Retno Pangestuti, Universitas Gadjah Mada, Indonesia*
- 17.00 – 17.15 **Growth and Yield of Shallot (*Allium cepa L. Aggregatum Group*) Affected by Transplanting Age and Varieties of TSS**  
*Baaqiy Amri Annisa, Endang Sulistyaningsih, Retno Pangestuti, Universitas Gadjah Mada, Indonesia*
- 17.15 – 17.30 **Q and A**

ORAL SESSIONS

**Theme 2. Food and Nutrition Security**

SESSION 6

Venue: **Pemandangan I**

Chairperson: **Dr. Ir. Maya Melati, MS., M.Sc., PERAGI**

- 13.00 – 13.30 ***Invited 1***  
**Changing Consumption Pattern of Vegetables in Asia: Implications on Nutritional Security**  
*Chengappa P.G., University of Agricultural Sciences, India*
- 13.30 – 14.00 ***Invited 2:***  
**Vegetables for Food Security and Economic Growth**  
*Idha Widi Arsanti, Indonesian Agency for Agriculture Education, Indonesia*
- 14.00 – 14.15 **Optimization of Anthocyanin Extraction Time from Banana Blossom (*Musa spp*) with Ultrasonic Assisted Extraction**

- 14.15 – 14.30 *Dianasri Widyapuri, Condro Wibowo, Ike Sitoresmi Mulyo Purbowati, Jenderal Soedirman University, Indonesia*  
**Seed-borne Fungal Contaminants on Garlic Post-harvest Storage in Sembalun Highlands of Eastern Lombok, Indonesia**  
*Baiq Nurul Hidayah, Nani Herawati, Ai Rosah Aisah, Tantawizal, Yuli Handayani, Assesment Institute of Agricultural Technology NTT, Indonesia*
- 14.30 – 14.45 **‘Proliga Technology’ for Red Chili in The Rice Fields, Jambi Province**  
*Desi Hernita, Lutfi Izhar, Rustam, Milda Erizanti, Bagus Kukuh Udianto, Suci Primilestari and Eva Salvia, Assesment Institute for Agricultural Technology of Jambi, Indonesia*
- 14.45 – 15.00 **Chia Seed as The Food of The Century : A Review**  
*Dwi Susilo Utami, and Paramita Maris, Universitas Tunas Pembangunan, Indonesia*
- 15.00 – 15.15 **Q and A**
- 15.15 – 15.30 Coffee break  
Profile of Agricultural Development Polytechnic

## SESSION 7

Venue: **Pemandangan I**

Chairperson: **Prof. Dr. Ir. Satriyas Iliyas PERAGI**

- 15.30 – 16.00 **Evaluation of Biocontrol Agents to Control Bacterial Wilt in Tomato using Seedling Screening**  
*Lourena Arone Maxwell, Jaw-Rong Chen, Lawrence Kenyon, and Srinivasan Ramasamy, World Vegetable Center, Taiwan*
- 16.00 – 16.15 **Production and Quality of Two Varieties of Winged Bean (*Psophocarpus tetragonolobus* L.) with Different Harvest Ages of Young Pods**  
*Destia Susanti S., Maya Melati, Ani Kurniawati, IPB University, Indonesia*
- 16.15 – 16.30 **Nutritional profile of Mangalore melon (*Cucumis melo* ssp. *agrestis* var. *acidulous*), a non-dessert South Indian culinary melon**  
*Raghavendra Gunnaiah, Ratnakar M. Shet, Pushpa Dodaraju, Mahesh Dashyal and Manjunath B. Teggihalli, University of Horticultural Sciences, Bagalkot, India*
- 16.30 – 16.45 **Development of Nucleotide Binding Site-Leucine-Rich Repeats (NBS-LRR) and RNA dependent RNA Polymerase (RdRP) based DNA markers in Okra [*Abelmoschus esculentus* (L.) Moench] against Yellow Vein Mosaic Virus (YVMV) resistance**

- Shwetha A., Raghavendra Gunnaiah, Krishna K. A. and Basavaraja N., University of Horticultural Sciences, Bagalkot, India*
- 16.45 – 17.00 **Genetic Improvement of Muskmelon (*Cucumis melo*. L) for enhanced shelf life and improved quality through intra-specific hybridization with Mangalore melon (*Cucumis melo* ssp. *agrestis* var *acidulus*)**  
*Ratnakar M. Shet, Raghavendra Gunnaiah, Virupakshi Hiremata, Arun Kulgudi and Shivanand Hongal, University of Horticultural Sciences, Bagalkot, India*
- 17.00 – 17.15 **Hypoglycemic Activity of Combination Aqueous Extract of Moringa Leaves and Sorghum Bran in Type II Diabetes Rats**  
*Emmy Noviarini Ningtiyas and Luthfi Retriansyah, Ministry of Agriculture, Indonesia*
- 17.00 – 17.30 **Q and A**

ORAL SESSIONS

**Theme 3. Food Supply Chain and Agribusiness**

**SESSION 8**

Venue: **Pemandangan II**

Chairperson: **Dr. Ir. Witono Adiyoga, M.S , IAARD**

- 13.00 – 13.30 ***Invited 1***  
**Development Strategies of Agricultural Sector Toward Covid-19 Pandemic**  
*Irham, University of Gadjah Mada, Indonesia*
- 13.30 – 14.00 ***Invited 2:***  
**Teaching Factory - an Agri-Food Supply Chain Actor in Promoting Agribusiness in Vocational Education**  
*Syaifuddin, Gowa Agricultural Development Polytechnic, Indonesia*
- 14.00 – 14.15 **Vegetable Farmers and Social Innovations in Food Estate Development Area: Collaborative Arrangements in Humbang Hasundutan, North Sumatera, Indonesia**  
*Dr. Idha Widi Arsanti, Dr. Acep Hariri, Indonesian Center for Agriculture Education, Indonesia*
- 14.15 – 14.30 **Smallholder producers^ options to participate and capture value from agri-food value chain**  
*Shaf Rijal Ahmad, Indonesian Agricultural Engineering Polytechnic, Indonesia*

- 14.30 – 14.45 **Design and Manufacture of Multipurpose Grating Machine For Micro and Small Business Scale with Electric Motor as Main Power Source**  
*Athoillah Azadi, Heri Suliyanto, Mochamad Zakky, Indonesian Agricultural Engineering Polytechnic, Indonesia*
- 14.45 – 15.00 **Farmers' interest in processing sweet potato (*Ipomoea batatas* L.) in South Binjai, Binjai, North Sumatra Indonesia**  
*Nurliana Harahap, Gusti Setiavani, Ameilia Zuliyanti Siregar, Luqman Al Hakim, Medan Ag-DP, Indonesia*
- 15.00 – 15.15 **Q and A**
- 15.15 – 15.30 Coffee break  
Profile of Agricultural Development Polytechnic

### SESSION 9

Venue: **Pemandangan II**

Chairperson: **Prof. Dr. Ir. Irham, M.Sc., Universitas Gadjah Mada**

- 15.30 – 16.00 ***Invited 3***  
**Harnessing the Potential of the Economic and Nutritional Power of Integrated Farming**  
*Setyabudi Udrayana, Malang Agricultural Development Polytechnic, Indonesia*
- 16.00 – 16.15 **Comparative Analysis of Eco-Friendly Agriculture and Marketing Innovation on Shallot Farming (Case Study: Lestari Mulyo Farmer Group, Selopamioro Village, Imogiri Subdistrict, Bantul, Yogyakarta Special Region)**  
*Tri Martini, Kurnianita, and Hano Hanafi, Yogyakarta Assesment Institute for Agricultural Technology, Indonesia*
- 16.15 – 16.30 **Pre-Cooling and Cold Storage Applications on Betel Fruit (*Piper betel*)**  
*Widyaningrum, Nurtania Sudarmi, Manokwari Ag-DP, Indonesia*
- 16.30 – 16.45 **The Role of Farmer Group Members in Building Farmers Economic Institutions Through The Agribusiness Sub-Terminal (Sta) in Sidodadi Ramunia Village, Beringin District, Deli Serdang Regency**  
*Dwi Febrimeli, Muhammad Teguh Prayogie, and M. Jufri, Medan Ag-DP, Indonesia*
- 16.45 – 17.00 **Resistance Test of Six Eggplant (*Solanum melongena* Linn.) Genotype Against Bacterial Wilt Disease (*Ralstonia solanacearum*) in the Greenhouse and on the Field**



- 17.00 – 17.15 *Awang Maharijaya, Devi Oktavia, Giyanto, Heri Harti, Kusuma Darma, IPB University, Indonesia*  
**Transaction Cost Estimation in Vegetable Marketing Involving Modern Food Retail Chains: Impact on Profitability of Growers**
- 17.15 – 17.30 *Kedar Vishnu and Chengappa P G, CHRIST University, India*  
**Binary Logistics Regression Model For Analyze Factors Influencing Technology Adoption Process Vegetable Farmers Case in Central Java Indonesia**
- 17.30 – 17.45 *Muhamad Rusliyadi, Yanuar Wahyu Yudistira Ardi, Kodrad Winarno, Yogyakarta- Magelang Ag-DP, Indonesia*  
**Q and A**

ORAL SESSIONS

**Theme 4. Young Agripreneur in Horticulture**

**SESSION 10**

Venue: **Pemandangan III**

Chairperson: **Henri Wira Perkasa, BCOmm., MGFAR, Indonesian Center for Agricultural Education**

- 13.00 – 13.30 *Invited 1*  
**Operations Management of Agribusiness Model of Intelligent Vegetable Production in Tropical Region**  
Dr. Muharfiza, Polytechnic of Engineering Agriculture, Indonesia
- 13.30 – 14.00 *Invited 2*  
**Digitalization in Horticultural Business: Implementation so Far?**  
M. Firdaus, Bogor Agricultural University, Indonesia
- 14.00 – 14.15 **Young Agripreneurs in Horticulture**  
*Tri Ismono, M Sukri, Amelia Gita Tifani, Mercy Corps Indonesia, Indonesia*
- 14.15 – 14.30 **Contribution of Vegetable Urban Farming to Household Income in The City of Yogyakarta**  
*Salsabila Nur Almaghani, Irham, Anung Pranyoto, Universitas Gadjah Mada, Indonesia*
- 14.30 – 14.45 **Q and A**
- 14.45 – 15.00 Coffee break  
Profile of Agricultural Development Polytechnic

**SESSION 11**

Venue: **Pemandangan III**

Chairperson: **Prof. Dr. Muhammad Firdaus, S.P., M.Si, IPB University**

- 15.00 – 15.30                    ***Invited 3***  
**Young Agricultural Entrepreneur’s Knowledge and Technical Practice in Developing agribusiness: A success story in Medan Agricultural Development Polytechnic**  
*Yuliana Kansrini, Medan Agricultural Development Polytechnic, Indonesia*
- 15.30 – 15.45                    **Profitability and Feasibility of Vegetable Farming in Urban Agriculture: A Case in Surakarta City**  
*Nungki Maghdalia, Irham, Anung Pranyoto, Universitas Gadjah Mada, Indonesia*
- 15.45 – 16.00                    **Young Farmers in Action: The Future of Agriculture and its Challenges in East Nusa Tenggara**  
*Luthfi Retriansyah, Kupang Agricultural Vocational High School, Indonesia*
- 16.00 – 16.15                    **Determinants of Members Participation on a Business Development of Processing “Ceriping Puyur” Case In Condongraos Business Group, Ngaditirto Village, Selopampang Subdistrict, Temanggung**  
*Halimah Nur Hidayati, Suharno dan Rika Nalinda, Malang Ag- DP, Indonesia*
- 16.15 – 16.30                    **Q and A**

**ORAL SESSIONS**

**Theme 5. Covid-19 : Issues and Challenges in Vegetables for Resillince during Pandemic**

**SESSION 12**

Venue: **Pemandangan IV**

Chairperson: **Dr. Suprehatin, PERHEPI**

- 13.00 – 13.30                    ***Invited 1***  
**Production of Pathogen-free Vegetables for Better Health**  
*Anupam Varma, ICAR-Indian Agricultural Research Institute (IARI), India*
- 13.30 – 14.00                    ***Invited 2***  
**Young Farmer Preparedness for Building Resilient Agribusiness in Horticulture**

- Bambang Sudarmanto, Yoma Agricultural Development Polytechnic, Indonesia*
- 14.00 – 14.15 **Covid-19 and its effect on home gardening behaviour in Indonesia**  
*Nur Fajrina, Derek Baker, R.R. Rukmowati Brotodjojo, PT. East West Seed, Indonesia*
- 14.15 – 14.30 **Covid-19: Issues and Challenges in Vegetables Crops for Resilience during Pandemic**  
*Tri Ismono, M Sukri, Amelia Gita Tifani, Mercy Corps, Indonesia*
- 14.30 – 14.45 **Value Added Strategy for Post Covid-19 Value Chain Resilience of Horticultures in Batu City and Malang Regency, East Java**  
*Saptini M Rahajeng, ICAT Ketindan - IAAEHRD, Indonesia*
- 14.45 – 15.00 **Farmers^ Preferences in The Application of The Principle of Use Chemical Pesticides in the Era of Covid 19**  
*Lukman Effendy, Yoyon Haryanto, Rudi Hartono, Tri Mulyana, Bogor Ag-DP, Indonesia*
- 15.00 – 15.15 **Q and A**
- 15.15 – 15.30 Coffee break  
Profile of Agricultural Development Polytechnic

### SESSION 13

Venue: **Pemandangan IV**

Chairperson: **Dr. Suprehatin, PERHEPI**

- 15.30 – 16.00 ***Invited 3***  
**Indoor Farming of Vegetables and Herbs: Potential & Challenges**  
*Michael Henry Bohme, Humboldt University of Berlin*
- 16.00 – 16.15 **Optimization of Yard Land Through the Lumbung Mataraman Program to Support Urban Food Security During the Pandemic Covid 19**  
*Siti Astuti, Yogyakarta-Magelang Ag-DP, Indonesia*
- 16.15 – 16.30 **Performance Test of Onion Dehuller Machine (BEJE PB 01 Type)**  
*Annisa Nur Ichniarsyah, Linda Liswanti, Titis Pury Purboningtyas, Yul Harry Bahar, Nawangwulan Widyastuti, Bogor Ag-DP, Indonesia*
- 16.30 – 16.45 **Population Density and Pattern of Vegetable Cultivation in the Yogyakarta Agglomeration Area**  
*Cungki Kusdarjito, Any Suryantini, Janabadra University, Indonesia*

- 16.45 – 17.00      **Gender Analysis of Vegetable Farmers During Pandemic in Caringin District, Bogor Regency**  
*Reni Suryanti, Wahyu Trisnasari, Intan Kusuma Wardani, Tri Ratna Saridewi, Sri Palupi, Bogor Ag-DP, Indonesia*
- 17.00 – 17.15      **Traditional Knowledge of the Ammatoa Kajang Indigenous Women for Covid 19 Mitigation in Bulukumba Regency, South Sulawesi**  
*Sri Endang Sukarsih, Makkarennu, Andang Suryana Soma, Gowa Ag-DP, Indonesia*
- 17.15 – 17.30      **Q and A**

**November 19, 2021 (Friday)**

**ORAL SESSIONS**

**Theme 2. Food and Nutrition Security**

**SESSION 14**

**Venue: Karaton 1**

**Chairperson: Dr. Rudi Hari Murti, PERHORTI**

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| 09.00 – 09.15 | <b>Study of the use of True Shallot Seed ( TSS) that have been stored for 2 years and their production in the Sibolangit farmer group, North Sumatra</b><br><i>Sortha Simatupang , Tumpal Sipahutar , Imelda Marpaung dan Evawati Sri Ulina, BPTP Sumatera Utara, Indonesia</i> |
| 09.15 – 09.30 | <b>Character Selection of Shade-Loving Tomatoes and Genetic Interaction X Shade Type on Tomato Plants Productivity</b><br><i>Dwiwanti Sulistyowati, Arya Widura Ritonga, Bogor Ag-DP, Indonesia</i>   |
| 09.30 – 09.45 | <b>Effect of Gamma Irradiation on Secondary Metabolic Compounds in Putative Mutants (MV3) from 3 Genotypes of Garlic</b><br><i>Utin Winarni, Syarifah Iis Aisyah, Diny Dinarti, IPB University, Indonesia</i>   |
| 09.45 – 10.00 | <b>Contribution of Vegetable Urban Farming on Household Food Expenditure in Yogyakarta City</b><br><i>Riskie Amanda Wahyu Primaningrum, Irham, Sugiyarto, Universitas Gadjah Mada, Indonesia</i>  |
| 10.00 – 10.15 | <b>The Effect of Number and Age of TSS (True Shallot Seed) Seedling on Shallot Seed Production</b><br><i>Pitri Ratna Asih, Agus Wartapa, Mustakim, Sukiyanto, Yogyakarta-Magelang Ag-DP, Indonesia</i>  |
| 10.15 – 10.30 | <b>Developing Detection Methods for Tomato Diseases: Innovation to Support Food Availability</b><br><i>Muslihah Nur Hidayati, Suranto, Ari Susilowati, Sebelas Maret University, Indonesia</i>  |
| 10.30 – 10.45 | <b>Q and A</b>  |
| 10.45 – 13.30 | Lunch Break   |

ORAL SESSIONS  
**Theme 2. Food and Nutrition Security**

**SESSION 15**

Venue: **Karaton 2**

Chairperson: **Dr. Ir. Maya Melati, MS., M.Sc., PERAGI**

- 09.00 – 09.15            **Motivation of Farmers in Controlling Powdery Mildew (Peronospora destructor) on Shallots in Food Estate Hortikultura, Humbang Hasundutan Regency**  
*Tama Sari Kartikasih Napitupulu, Tience Elizabet Pakpahan, Elrisa Ramadhani, Medan Ag-DP, Indonesia*
- 09.15 – 09.30            **Performance and Productivity of Potato (*Solanum tuberosum L.*) Granola Variety from Five Generations in Toba, North Sumatra**  
*Vitho Alveno, Nerlileng Purba, Bambang S. Purwoko, Awang Maharijaya, IPB University, Indonesia*
- 09.30 – 09.45            **Preliminary Result Test of Potato Genotype (*Solanum tuberosum*) in Garut District**  
*Widiyanti Muadz, Linda Nursalma, Sobir, Awang Maharijaya, IPB University, Indonesia*
- 09.45 – 10.00           **Performance of SS Sakato Shallot Variety in Three Locations in Indonesia**  
*Maulidia Nabilah, Heri Harti, M.A. Chozin, Kusuma Darma, Endang Gunawan, Awang Maharijaya, Center for Tropical Horticulture Studies, Indonesia*
- 10.00 – 10.15           **The Economic Impact of Carbosulfan Use on Shallot Farm**  
*Hastuti, Dea Amanda, Bogor Agricultural University, Indonesia*
- 10.15 – 10.30           **The Social and Economic Impact of Carbosulfan Use on Chili Farm**  
*Muhammad Firdaus, Hastuti, Dea Amanda, Bogor Agricultural University, Indonesia*
- 10.30 – 10.45           **Q and A**
- 10.45 – 13.30           Lunch Break

ORAL SESSIONS  
Theme 2. Food and Nutrition Security

[ADD. BREAKOUT ROOM]

SESSION 16

Venue: Pemandangan IV

Chairperson: **Dr. Endah Puspitojati, S.TP., M.TP, Yogyakarta-Magelang Ag-DP**

- 09.00 – 09.15                    **Provision of *Trichocompost* Fertilizer to Increase the Growth and Yield of Red Chili Plants in Rumbio**  
*Ainil Faidah, Setya Budhi Udrayana, Sutoyo, Malang Ag-DP, Indonesia*
- 09.15 – 09.30                    **Leaf Extract of Pagoda Flower and Leaf Extract of Spine Spinach for Suppressing the Development of Pest and Disease in Chilli**  
*Riza Ulil Fitria, Ratih Sandrakirana, Handoko, Baswarsiyati, Catur Hermanto, Evy Latifah, Assesment Institute for Agriculture Technology of East Java, Indonesia*
- 09.30 – 09.45                    **Developing Automation Control System with a Light Emitting Diode (LED) on a Floating Hydroponic System**  
*Andy Saryoko, Rahmat and R.H.Anasiru, Indonesian Agriculture Engineering Polytechnic, Indonesia*
- 09.45 – 10.00                    **Spodoptera Exigua Pest Control Strategy on Shallots Through Intercropping with Aromatic Plants**  
*Lilis Wulandari, Rika Despita, Gunawan, Malang Ag-DP, Indonesia*
- 10.00 – 10.15                    **Determination of Seed Physiological Maturity of Kangkong (*Ipomoea reptans* Poir.) Based on Phenology, Seed Quality, and Heat Unit Accumulation**  
*Neny Priska Yuliandira, Okti Syah Isyani Permatasari, Satriyayas Ilyas, IPB University, Indonesia*
- 10.15 – 10.30                    **Farmer's Willingness to Grow Garlic: Empirical Evidence from Sembalun, West Nusa Tenggara**  
*Lalu Hendri Setiawan,, Marlina Ayuni Khosyati, Nurul Nazira, Siti Shara, Baiq Wardani Hidayati, Suprehatin Suprehatin, IPB University, Indonesia*
- 10.30 – 10.45                    **Coffee Climate Change Adaptation and Polyculture Farming with Vegetables**  
*Aqdar Maskur, Nuffic, Neso Indonesia*
- 10.45 – 11.00                    **Rice to Rise: Development and Utilization of Rice Hull Paper Bags in Rice Retail Stores in Southern Leyte, Philippines**  
*Eden Vina L. Grate, Jolina S. Ladan, Rovic D. Oppus, Nuffic, Neso Indonesia*
- 11.00 – 11.15                    **Q and A**
- 11.15 – 13.30                    Lunch Break

ORAL SESSIONS  
**Theme 3. Food Supply Chain and Agribusiness**

**SESSION 17**

Venue: **Pemandangan I**

Chairperson: **Dr. Deden Derajat Matra, S.P., M.Agr., IPB University**

- 09.00 – 09.15                    **Distribution of Major Viruses on Shallot in Indonesia**  
*Heri Harti, Sobir, Suryo Wiyono, Sri Hendrastuti Hidayat, IPB University, Indonesia*
- 09.15 – 09.30                    **Supply Chain for Horticultural Agribusiness: with Reference to Indonesian Potato Industry \*)**  
*Arifin Tasrif, Harniati, and Nazaruddin, Bogor Ag-DP, Indonesia*
- 09.30 – 09.45                    **Opportunity for Development of Chili Commodity in Peri Urban Regions**  
*Tri Ratna Saridewi and Wasrob Nasruddin, Bogor Ag-DP, Indonesia*
- 09.45 – 10.00                    **True Shallot Seed Efficiency on The Production and Income of Shallot Farmers**  
*Muhammad Ivan Fadzil, Muhammad Firdaus, Netti Tinaprilla, IPB University, Indonesia*
- 10.00 – 10.15                    **Disruption to Supply Chain of Red Chili: Case Study in Cirebon District+**  
*Harniati, Thomas Widodo, Arifin Tasrif, Bogor Ag-DP, Indonesia*
- 10.15 – 10.30                    **Factors affecting the sustainability of fintech financing system for vegetable and fruit farmers in Yogyakarta, Indonesia**  
*Trisna Al Hadji AT, Jamhari, Irham, Universitas Gadjah Mada, Indonesia*
- 10.30 – 10.45                    **Q and A**
- 10.45 – 13.30                    Lunch Break

ORAL SESSIONS  
**Theme 3. Food Supply Chain and Agribusiness**

**SESSION 18**

Venue: **Pemandangan II**

Chairperson: **Dr. Awang Maharijaya, S.P., M.Si, IPB University**

- 09.00 – 09.15                    **Relation Between Application Of Shallot Cultivation Components and Productivity from Sekolah Lapang Upsus**



	<b>(SI-Upsus) Farmers Alumni in Donotirto Village, Kretek District, Bantul Regency</b> <i>Ananti Yekti, Dyah Kartika Mayang Sekar, Asih Farmia, Yogyakarta-Magelang Ag-DP, Indonesia</i>
09.15 – 09.30	<b>Women Farmer Group^S Motivation in Chilli Processing, in Trihanggo Village, Gamping, Sleman Regency</b> <i>Sujono, Cahyani Dian Azhar, Heriyanto, Yogyakarta-Magelang Ag-DP, Indonesia</i>
09.30 – 09.45	<b>The Capacity of Extension Workers and Demonstration Methods to Farmers^ Behavior in Utilizing Yards with Vertical Vegetable Cultivation</b> <i>Oeng Anwarudin, Nazaruddin Nazaruddin, Pandu Danar Raharjo, Manokwari Ag-DP, Indonesia</i>
09.45 – 10.00	<b>The contribution of women groups in Bogor-urban agriculture: Homework to upscale their practices towards sustainable horticulture value chain</b> <i>Ika Satyasari &amp; Peter J. van der Meer, DeTara Foundation, Indonesia</i>
10.00 – 10.15	<b>Social innovation in vegetable production</b> <i>Ibnu Budiman, and Silviana Chandra, Nuffic Neso, Indonesia</i>
10.15 – 10.30	<b>Identification of Fungi Associated with Potato Tuber Causes Dry Rot in Lembang</b> <i>Novi Irawati, and Asma Sembiring, Indonesian Vegetable Research Institute, Indonesia</i>
10.30 – 10.45	<b>Q and A</b>
10.45 – 13.30	Lunch Break

#### ORAL SESSIONS

#### **Theme 5. Covid-19 : Issues and Challenges in Vegetables for Resillince during Pandemic**

#### **SESSION 19**

Venue: **Pemandangan III**

Chairperson: **Dr. Andy Saryoko, Indonesian Agricultural Engineering Polytechnic**

09.00 – 09.15	<b>Effect of Mulch and Trichoderma Application on Garlic (<i>Allium sativum</i> L.) Production</b> <i>R Sandrakirana, L Fauziah, l Aisyawati, C Tafakresnanto and Baswarsiati, Assesment Institute for Agricultural Technology East Java, Indonesia</i>
09.15 – 09.30	<b>Backward regression: to build the best model of developing agricultural equipment and machinery service business as support to vegetable production</b>

09.30 – 09.45	<i>Intan Kusuma Wardani, Kusmiyati, Achdiyati, Bogor Ag-DP, Indonesia</i> <b>The Effect of Types of Local Organic Matter on Vertisol Soil on Growth and Yield of Three True Shallot Seed Varieties</b> <i>Rajiman, Sari Megawati, Ananti Yekti dan Arif Anshori, Yogyakarta- Magelang Ag-DP, Indonesia</i>
09.45 – 10.00	<b>Q and A</b>
11.00 – 13.30	Lunch Break

## **SESSION 20**

### **Poster Presentation**

Venue: **Karaton Ballroom**

Chairperson: **Dr. Andy Saryoko, Indonesian Agricultural Engineering Polytechnic**

15.30 – 15.45	Coffee break Profile of Agricultural Development Polytechnic
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## **SESSION 21**

### **PANEL DISCUSSION**

Venue : **Ballroom Karaton**

15.45 – 17.00	Topic: Vegetables for Resilience and Healthy Diets with following suggested discussion areas: <ul style="list-style-type: none"><li>• Identifying key areas of capacity building and linkages</li><li>• Addressing challenges in policy matters in covid-19 Pandemic</li><li>• Emerging technologies facilitating value chain</li><li>• Need for knowledge management platform for specific commodities</li><li>• Researchable agendas in components of value chain</li></ul>
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1. Dr. Prem Nath
2. Prof. Michael Henry Bohme
3. Dr. Marco Wopereis
4. Dr. Idha Widi Arsanti
5. Prof. Firdaus (Moderator)
6. Prof. Irham
7. Dr. P.G. Chengappa
8. Dr. Anupam Varma
9. Dr. Joao Silva Dias
10. Prof. Stefaan De Neve

**AWARD**

**Venue : Ballroom Karaton**

17.00 – 17.30

**Award for Outstanding Poster and Oral Presentation**

**CLOSING CEREMONY**

**Venue : Karaton Ballroom**

17.00 – 17.30

**Award for Outstanding Poster and Oral Presentation**

17.30 – 18.00

**Closing Remarks**

Prof. Dr. Ir. Dedi Nursyamsi, M.Agr

DG of Indonesian Agency for Agriculture Extension and  
Human Resources Development, Ministry of Agriculture Head  
of Committee

**Remarks of the Co-organizer**

Dr. Marco Wopereis

DG of World Vegetable Center (WorldVeg, Taiwan)

**Closing Presentation and future program**

Dr. Prem Nath

Chairman SEAVEG/Chairperson Vegetable Science  
International Network (VEGINET), India – SEAVEG  
Coordination Committee

**Vote of Thanks**

Dr. Idha Widi Arsanti, S.P., M.P.

**November 20, 2021 (Saturday)**

**FIELDTRIP – CITY TOUR**

08.00 - 16.00

**PT. Naturindo**

**Borobudur Temple**

**Meeting ID: 859 8490 7940**

**Password : SEAVEG2021**