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# HC 2021

## International HORTICULTURE e-CONFERENCE

FEBRUARY 22-23, 2021

## CONFERENCE PROGRAM

Organized by

Pakistan Society for Horticultural Science

On collaboration with

Institute of Horticultural Sciences, University of Agriculture, Faisalabad

### International Horticulture e-Conference 2021 February 22-23, 2021

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Date	Events	Time
22-02-2021	DAY-1	
	INAUGURAL SESSION	
	Moderator: Dr. Raheel Anwar, Assistant Professor, IHS, UA	F
	Recitation of Holy Quran	09:30 am
	Naat Sharif	09:35 am
	Welcome Address	09:40 am
	Prof. Dr. A.U. Malik, Director, IHS, UAF	
	Inaugural Address by Chief Guest	09:50 am
	Prof. Dr. Asif Tanveer, Pro Vice Chancellor, UAF	
	Vote of Thanks	10:00 am
	Prof. Dr. C.M. Ayyub, President, PSHS	
	BREAK	10:20 am
	TECHNICAL SESSION-I (Key Speakers)	
	Session Chair: Prof. Dr. A.U. Malik, Director, IHS, UAF Session Co-Chair: Prof. Dr. Ishtiaq Ahmad Rajwana	
	Chairman, National Agriculture Education Accreditation Council, HEC,	Islamabad
	Moderator: Dr. Adnan Younis, Associate Professor, IHS, UA	
	Ethylene Management Interventions to Mitigate Postharvest Losses in	10:30 am
	Fresh Horticultural Produce by <b>Prof. Dr. Zora Singh</b> , Australia	
	Current Status, Challenges and Way Forward to Improve Export of Fruits	11:00 am
	and Vegetables by Mr. Waheed Ahmad, Patron-in-Chief, All PFVA,	
	Pakistan	
	Use of E-learning Technologies for Advancing Horticultural Postharvest	11:30 am
	Education: Recent Experience, Challenges, and the Way Forward by <b>Dr</b> .	
	V.Y. Tokala, Dr. L. Kitinoja and Dr. S. Khalid, USA	12.00
	Healthy Food for Healthy Cities by <b>Dr. Charles L. Wilson</b> , USA Innovative Soilless Substrate for the Future of Container Plant Production	12:00 pm
	by <b>Dr. Brian E. Jackson</b> , USA	12:20 pm
	New Zealand Kiwifruit Industry; Status, Technology, Role of Zespri –	12:40 pm
	Learnings for Pakistan, by <b>Dr. Abdul Jabbar</b> , New Zealand	12.10 pm
	Remarks by the Session Chair/Co-Chair	12:55 pm
	PRAYER & LUNCH BREAK	01:00-02:00 pm
	TECHNICAL SESSION-II	
	Session Chair: Prof. Dr. Muhammad Akbar Anjum	
	Chairman, Department of Horticulture, BZU, Multan	
	Session Co-Chair: Dr. M. Javed Tareen, D.G., Agri. Res. Inst., Sariab	-
	Moderator: Dr. Adnan Younis, Associate Professor, IHS, UA	
	Landscape Horticulture Work on Sukkar-Multan Motorway (M-5) by <b>Dr</b> .	02:00 pm
	Muhammad Aslam Khan, Pakistan. (Key Speaker)	
	Worldwide Occurrence and Phylogeography of Watermelon Chlorotic	02:30 pm
	Stunt Virus Infecting Cucurbits by Dr. Muhammad Naeem Sattar, KSA	
	(Key Speaker)	

grandiflorus L.) In Landscape by Dr. Adnan Younis       03:3         Impact of Foliar Chitosan Application on Morphological and Physiological       03:3         Processes of Calendula under Drought Stress by Dr. Gulzar Akhtar       03:1         Genetic Diversity and Population Structure of Date Palm Male Accessions       03:1         by Using SSR Markers by Mr. Muhammad Kashif Raza       03:1         Mitigating Citrus Huanglongbing Pathogen Through Core Functional       03:1         Endophytes: Focused on Model Citrus Pathosystem and Inhibition of Quorum Sensing Signals by Mr. Shabzad Munir, China       03:2         Morphological and Stomatal Diversity in Colchiploid Germplasm of Foster       03:3         Pink' Grapefruit (Citrus paradisi Macf.) by Mr. Muhammad Awais Rana       1         Impact of Runners Harvest Date and Delayed Transplanting on Growth and Productivity of Strawberry cv. "Chandler" by Dr. Kashif Razza       03:3         Reserve in Ziarat Balochistan, Pakistan by Miss Alia Ahmed       Genome-Wide Association Studies Revealed Genetic Basis for Unique floral       04:4         Traits in A Diversified Potato Panel by Dr. M.A.B. Zia, Turkey       Phenotypic       Characterization of Colchiploid Germplasm       04:5         of Eustis Limequat by Dr. Biduguees Fatima       Association Mapping Reveals Novel Genomic Regions Controlling Some Root and Stolon Traits in Tetraploid Potato (Solanum tuberosum L.) by Mr. MLF. Yousaf, China       04:3         Physicochemical Diversity in White Flesh			
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Reserve in Žiarat Balochistan, Pakistan by Miss Alia Ahmed       04:0         Genome-Wide Association Studies Revealed Genetic Basis for Unique floral       04:0         Traits in A Diversified Potato Panel by Dr. M.A.B. Zia, Turkey       04:1         Phenotypic       Characterization       of       Colchiploid       Germplasm       04:1         of Eustis Limequat by Dr. Bilquees Fatima       04:1       04:1       04:1       04:1         Association       Mapping Reveals Novel Genomic Regions Controlling Some       04:1       04:1         Root and Stolon Traits in Tetraploid Potato (Solanum tuberosum L.) by Mr.       M.F. Yousaf, China       04:1         Physicochemical Diversity in White Flesh Guava Germplasm of Punjab and       KPK Regions by Miss Syeda Anum Masood Bokhari       04:1         In Vitro Regeneration Responses in Acid Limes by Miss Arooge Fatima       04:2         Mandarin by Mr. Muhammad Ahsan Qureshi       04:1         Role of PGRs in Preharvest Fruit Drop Reduction and Enhancement of Fruit Quality Attributes in Date Palm by Mr. Hammad Hussain       05:1         Effect of Different Nitrogen Levels Spray on Growth Attributes and 0il       05:1         Contents of Tulsi Plant by Miss Sidra Mahmood       06:30-1         Remarks by the Session Chair/Co-Chair       05:30-1         POSTER SESSION       05:30-1         Contents of Tulsi Plant by Miss Sidra Ma	40 pm		
Traits in A Diversified Potato Panel by Dr. M.A.B. Zia, Turkey       9         Phenotypic       Characterization       of       Colchiploid       Germplasm       04::         of Eustis Limequat by Dr. Bilquees Fatima       Association Mapping Reveals Novel Genomic Regions Controlling Some       04::         Association Mapping Reveals Novel Genomic Regions Controlling Some       04::       04::         Root and Stolon Traits in Tetraploid Potato (Solanum tuberosum L.) by Mr.       04::         M.F. Yousaf, China       04::         Physicochemical Diversity in White Flesh Guava Germplasm of Punjab and KPK Regions by Miss Syeda Anum Masood Bokhari       04::         In Vitro Regeneration Responses in Acid Limes by Miss Arooge Fatima       04::         Mandarin by Mr. Muhammad Ahsan Qureshi       04::         Role of PGRs in Preharvest Fruit Drop Reduction and Enhancement of       05::         Fruit Quality Attributes in Date Palm by Mr. Hammad Hussain       05::         Effect of Different Nitrogen Levels Spray on Growth Attributes and Oil Contents of Tulsi Plant by Miss Sidra Mahmood       05::         Remarks by the Session Chair/Co-Chair       05::       05::         POSTER SESSION       05::30-i         Contents of Tulsi Plant by Miss Sidra Mahmood       06:30-i         Remarks by the Session Chair/Co-Chair       05::         POSTER SESSION       05:3	50 pm		
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Root and Stolon Traits in Tetraploid Potato (Solanum tuberosum L.) by Mr.         M.F. Yousaf, China         Physicochemical Diversity in White Flesh Guava Germplasm of Punjab and         KPK Regions by Miss Syeda Anum Masood Bokhari         In Vitro Regeneration Responses in Acid Limes by Miss Arooge Fatima         O44:         Evaluation of Rootstocks for Better Growth and Productivity of Kinnow         Mandarin by Mr. Muhammad Ahsan Qureshi         Role of PGRs in Preharvest Fruit Drop Reduction and Enhancement of         Fruit Quality Attributes in Date Palm by Mr. Hammad Hussain         Effect of Different Nitrogen Levels Spray on Growth Attributes and Oil         Contents of Tulsi Plant by Miss Sidra Mahmood         Remarks by the Session Chair/Co-Chair         OS1:         Otients of Tulsi Plant by Miss General Meeting of PSHS         O6:30-4         23-02-2021         Carear Session Chair: Prof. Dr. Saleem Jilani         Session Chair: Prof. Dr. Saba Ambreen Memon         Chairperson, Department of Horticulture, Sindh Agriculture University, Tandojam, Moderator: Dr. Adnan Younis, Associate Professor, IHS, UAF	l0 pm		
KPK Regions by Miss Syeda Anum Masood Bokhari       04:4         In Vitro Regeneration Responses in Acid Limes by Miss Arooge Fatima       04:4         Evaluation of Rootstocks for Better Growth and Productivity of Kinnow       04:4         Mandarin by Mr. Muhammad Ahsan Qureshi       04:4         Role of PGRs in Preharvest Fruit Drop Reduction and Enhancement of       05:6         Fruit Quality Attributes in Date Palm by Mr. Hammad Hussain       04:6         Effect of Different Nitrogen Levels Spray on Growth Attributes and Oil       05:7         Contents of Tulsi Plant by Miss Sidra Mahmood       05:30-6         Remarks by the Session Chair/Co-Chair       05:30-6 <b>POSTER SESSION</b> 05:30-6 <b>23-02-2021</b> DAY-2         Z3-02-2021       DAY-2         Charper Session Chair: Prof. Dr. Saleem Jilani       Dean, Faculty of Agriculture, Gomal University, D.I. Khan, KP         Session Co-Chair:       Prof. Dr. Saba Ambreen Memon         Chairperson, Department of Horticulture, Sindh Agriculture University, Tandojam, Moderator: Dr. Adnan Younis, Associate Professor, IHS, UAF	20 pm		
In Vitro Regeneration Responses in Acid Limes by Miss Arooge Fatima       04:4         Evaluation of Rootstocks for Better Growth and Productivity of Kinnow       04:4         Evaluation of Rootstocks for Better Growth and Productivity of Kinnow       04:4         Mandarin by Mr. Muhammad Ahsan Qureshi       04:4         Role of PGRs in Preharvest Fruit Drop Reduction and Enhancement of       05:1         Fruit Quality Attributes in Date Palm by Mr. Hammad Hussain       05:1         Effect of Different Nitrogen Levels Spray on Growth Attributes and Oil       05:1         Contents of Tulsi Plant by Miss Sidra Mahmood       05:30-4         Remarks by the Session Chair/Co-Chair       05:30-4 <b>POSTER SESSION</b> 05:30-4 <b>23-02-2021</b> DAY-2 <b>23-02-2021</b> DAY-2 <b>Company Session Chair:</b> Prof. Dr. Saleem Jilani       Dean, Faculty of Agriculture, Gomal University, D.I. Khan, KP         Session Co-Chair:       Prof. Dr. Saba Ambreen Memon         Chairperson, Department of Horticulture, Sindh Agriculture University, Tandojam, Moderator: Dr. Adnan Younis, Associate Professor, IHS, UAF	30 pm		
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Role of PGRs in Preharvest Fruit Drop Reduction and Enhancement of       05:6         Fruit Quality Attributes in Date Palm by Mr. Hammad Hussain       05:6         Effect of Different Nitrogen Levels Spray on Growth Attributes and Oil       05:7         Contents of Tulsi Plant by Miss Sidra Mahmood       05:7         Remarks by the Session Chair/Co-Chair       05:30-0         POSTER SESSION       05:30-0         Annual General Meeting of PSHS       06:30-0         23-02-2021       DAY-2         Session Chair: Prof. Dr. Saleem Jilani       05:30-0         Dean, Faculty of Agriculture, Gomal University, D.I. Khan, KP       Session Co-Chair: Prof. Dr. Saba Ambreen Memon         Chairperson, Department of Horticulture, Sindh Agriculture University, Tandojam, Moderator: Dr. Adnan Younis, Associate Professor, IHS, UAF	50 pm		
Effect of Different Nitrogen Levels Spray on Growth Attributes and Oil       05::         Contents of Tulsi Plant by Miss Sidra Mahmood       05::         Remarks by the Session Chair/Co-Chair       05::         POSTER SESSION       05::30-4         Annual General Meeting of PSHS       06:30-6         DAY-2       06:30-6         Session Chair: Prof. Dr. Saleem Jilani       Dean, Faculty of Agriculture, Gomal University, D.I. Khan, KP         Session Co-Chair: Prof. Dr. Saba Ambreen Memon       Chairperson, Department of Horticulture, Sindh Agriculture University, Tandojam, Moderator: Dr. Adnan Younis, Associate Professor, IHS, UAF	00 pm		
POSTER SESSION       05:30-4         Annual General Meeting of PSHS       06:30-4         OF DAY-1         23-02-2021       DAY-2         TECHNICAL SESSION-III         Session Chair: Prof. Dr. Saleem Jilani         Dean, Faculty of Agriculture, Gomal University, D.I. Khan, KP         Session Co-Chair: Prof. Dr. Saba Ambreen Memon         Chairperson, Department of Horticulture, Sindh Agriculture University, Tandojam, Moderator: Dr. Adnan Younis, Associate Professor, IHS, UAF	L0 pm		
Annual General Meeting of PSHS       06:30-4         END OF DAY-1       60:30-4         23-02-2021       DAY-2         Part of the second s	25 pm		
Annual General Meeting of PSHS       06:30-4         END OF DAY-1       6         23-02-2021       DAY-2         Comparison of the second s	)6:30 pm		
23-02-2021 DAY-2 TECHNICAL SESSION-III Session Chair: Prof. Dr. Saleem Jilani Dean, Faculty of Agriculture, Gomal University, D.I. Khan, KP Session Co-Chair: Prof. Dr. Saba Ambreen Memon Chairperson, Department of Horticulture, Sindh Agriculture University, Tandojam, Moderator: Dr. Adnan Younis, Associate Professor, IHS, UAF	)7:30 pm		
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	Sindh		
Horticulture in the Northern Territory of Australia - Opportunities for R&D Collaboration with Pakistan by <b>Dr. Muhammad Sohail Mazhar</b> , Australia (Key Speaker)	)0 am		
	20 am		
Rise and Fall of Pomegranate Industry in South Punjab, Pakistan by <b>Prof.</b> 09:4 <b>Dr. I.A. Rajwana</b>	40 am		
	50 am		
Postharvest Quality Dynamics of Wild Black Raspberry ( <i>Rubus occidentalis</i> 10:0 L.) Fruits Stored at Different Temperatures by <b>Dr. M. Maqbool</b>			

	Overview of the Conference & Recommendations Dr. Muhammad Usman, Associate Professor, IHS, UAF Address by Chief Guest Prof. Dr. Javed Akhtar, Dean Faculty of Agriculture, UAF Vote of Thanks President, PSHS END OF CONFERENCE	02:30 pm 02:45 pm 03:00 pm 03:15 pm
	Dr. Muhammad Usman, Associate Professor, IHS, UAF Address by Chief Guest Prof. Dr. Javed Akhtar, Dean Faculty of Agriculture, UAF Vote of Thanks	02:45 pm
	Dr. Muhammad Usman, Associate Professor, IHS, UAF Address by Chief Guest Prof. Dr. Javed Akhtar, Dean Faculty of Agriculture, UAF	02:45 pm
	Dr. Muhammad Usman, Associate Professor, IHS, UAF Address by Chief Guest	•
	Dr. Muhammad Usman, Associate Professor, IHS, UAF	•
		02:50 pm
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	Moderator: Dr. Raheel Anwar, Assistant Professor, IHS, UA Overview of the Conference & Recommendations	02:30 pm
		F
	CONCLUDING SESSION	02:00-02:30 pm
	Researchable Key Issues Related to Horticulture Industry	02:00-02:30 pm
	INDUSTRY SESSION Moderator: Dr. Raheel Anwar, Assistant Professor, IHS, UA	F
	PRAYER & LUNCH BREAK INDUSTRY SESSION	01:00-02:00 pm
	POSTER SESSION	
		12:15 pm 12:20-01:00 pm
	Remarks by the Session Chair/Co-Chair	12:15 pm
	of Osmoprotectants by <b>Dr. Osama Bin Abdul Hafeez</b>	11:55 alli
	Mitigation of Tomato Water Stress via Seed Priming and Foliar Application	11:55 am
	<i>sativus</i> L. by Foliar Application of Chitosan in Three Sowing Dates Grown Under Hot Environment by <b>Dr. Mujahid Ali</b>	
	Sustaining Water Balance and Various Physiological Traits in <i>Cucumis</i>	11:45 am
	Underdeveloped Region by <b>Dr. Ana Aslam</b>	11.45
	Metals Toxicity in Wastewater Irrigated Vegetables: A Case Study of	11:35 am
	Technologies by <b>Mr. Abhishek Pandey</b> , India	11:35 am
	Agriculture 5.0: Future of Farming through Machine Learning	11:20 am
		11:20 am
	Quality Attributes of Guava ( <i>Psidium guajava</i> L.) cv. Gola during Storage Under Ambient Conditions by <b>Dr. Muhammad Azam</b>	
	Pre-Storage <i>Aloe vera</i> Gel dipping Maintained Physico-Chemical Fruit	11:10 pm
-	(Helianthus annuus L.) by <b>Mr. Hafiz Kashif Ali</b>	11 10
	Efficacy of Various Planting Times on Yield and Quality of Cut Sunflower	11:00 am
	during Cold Storage by <b>Miss Ayesha Maryam</b>	11.00
	Exposure to Aqueous Ozone Retained Nutritional Quality of Strawberries	10:50 am
	Storage by <b>Prof. Dr. Saeed Ahmad</b>	10 50
	Enhanced the Quality of Papaya Fruit Cultivar "Red lady" during Cold	
	Postharvest Hot Water Treatment (HWT) Suppressed the Fruit Rot and	10:40 am
	Mahmood Ul Hassan	10.10
	Senescence and Maintaining Overall Quality of Green Chilies by <b>Mr</b> .	
	Response of 1-MCP Smart Card Technology in Delaying Postharvest	10:30 am
	Ghulam Khaliq	10.00
	Delaying Biochemical Changes in Banana Fruit during Storage by <b>Dr</b> .	
	Pre-harvest Application of Nitric Oxide Inducing Antioxidant Activities and	10:20 am
	Maintains Quality of Litchi Fruits during Ambient Storage by Dr. Sajid Ali	
	Post Storage Temperature Conditioning Delays Enzymatic Browning and	10:10 am