

ISTRO 2024 CONFERENCE PROGRAM (DRAFT – As of 17 September 2024)

Authors highlighted in yellow are not registered and will be deleted.

Sunday, September 22 nd 5:00pm-10:00pm				
5:00pm– 7:00pm	ARRIVAL AND ISTRO BOARD MEETING; Moderator: Dr. Mark Reiter, ISTRO President			Beach Club Room
4:00pm– 7:00pm	REGISTRATION			Atlantic Ballroom Foyer
6:00pm– 10:00pm	ARRIVAL SOCIAL			Mariners’ Court
Monday, September 23 rd 7:00am-1:00pm				
7:00am– 8:00am	BREAKFAST (provided)			Atlantic Ballroom
7:00am– 5:00pm	REGISTRATION			Atlantic Ballroom Foyer
8:00am– 5:00pm	POSTER SESSION DISPLAYED (TILLAGE)			Atlantic Ballroom Foyer
7:45am– 12:00pm	MODERATOR	Main Session	Dr. Mark Reiter, ISTRO President	Atlantic Ballroom
8:00am– 8:20am	Welcome to Virginia Beach, Virginia and Virginia Agricultural Overview	Main Session	Mark Reiter	Atlantic Ballroom
8:20am– 8:40am	Welcome From the College of Agriculture and Life Sciences, Virginia Tech	Main Session	Thomas Thompson	Atlantic Ballroom
8:40am– 9:00am	Welcome From Virginia Cooperative Extension	Main Session	Mike Gutter	Atlantic Ballroom
9:00am– 9:20am	Virginia Agricultural Experiment Station, Virginia Tech	Main Session	Kang Xia	Atlantic Ballroom
9:20am– 9:40am	Global Engagement Strategy for Virginia Tech's College of Agriculture and Life Sciences	Main Session	Thomas Thompson	Atlantic Ballroom
9:40m– 10:15am	BREAK			Atlantic Ballroom Foyer
10:15am– 11:00am	Agriculture Exports and The Port of Virginia: Four Centuries of Success and Partnership	Main Session	Greg Edwards	Atlantic Ballroom
11:00am– 12:00am	Keynote Speaker: Root, Soils, Environment, Ag Science, and Farms – How Can We Keep Them Alive?	Main Session	Ole Wendroth	Atlantic Ballroom

12:00pm– 1:00 pm	LUNCH (Provided)			Atlantic Ballroom
Monday, September 23rd 1:00 pm to 7:00 pm				
12:45pm– 5:00pm	MODERATOR	Tillage	Dr. Matthew Chappell	Atlantic Ballroom
1:00pm– 1:20pm	Effects of Fallow Management Practices on Soil Water, Crop Yield and Water Use Efficiency in Winter Wheat Monoculture System: A Meta-Analysis	Tillage	Muhammad Adil	Atlantic Ballroom
1:20pm– 1:40pm	Prospects of Energy Transition in Tillage Operations in Sub-Saharan Africa	Tillage	Samuel Ohanyere	Atlantic Ballroom
1:40pm– 2:00pm	Potentials of Artificial Intelligence Applications to Soil Tillage	Tillage	Akindele Folarin Alonge	Atlantic Ballroom
2:00pm– 2:20pm	Powered Disc Harrow Performance with Different Tillage Discs for Crop Residue Management	Tillage	Parish Prakash Nalavade	Atlantic Ballroom
2:20pm– 3:00pm	BREAK			Atlantic Ballroom Foyer
3:00pm– 3:20pm	Tractor-Induced Compactive Effect on the Yield of Egusi-Melon (<i>Colocynthus Citrullus</i> L.) Produced in South-East Nigeria	Tillage	Sabbas Asoegwu	Atlantic Ballroom
3:20pm– 3:40pm	Effects of Inoculation on Productivity and Nutritional Quality Using Different Species of Mushrooms	On-farm, applied research and extension	Oke Afolabi	Atlantic Ballroom
3:40pm– 4:00pm	Modification and Performance Evaluation of a Parabolic Solar Food Dryer	Crop Protection	Muideen Olasunkanmi Zubair	Atlantic Ballroom
4:00pm– 4:20pm	Design and Development of a Reciprocating Blade Power Weeder	Crop protection	Samson Olubo	Atlantic Ballroom
4:20pm– 4:40pm	Design and Analysis of Ultrasound Wave Pre-Treatment Device for Quality Retention Prior to Freezing and Ambient Storage of Tomatoes	Global food security challenges	Adeshina Fadeyibi	Atlantic Ballroom
4:40pm– 5:00pm				Atlantic Ballroom
5:00pm– 7:00pm	POSTER SESSION (AUTHORS PRESENT) (TILLAGE) AND MIXER			Atlantic Ballroom Foyer
Monday, September 23rd 1:00 pm to 7:00 pm				
12:45pm– 5:00pm	MODERATOR	Tillage	Dr. Mary Beth Kirkham	Cape Charles A
1:00pm– 1:20pm	Effects of Traffic and Tillage Management Systems on Crop Establishment, Growth and Yield	Tillage	Paula Misiewicz	Cape Charles A
1:20pm– 1:40pm	Effect of Long-Term Conservation Agricultural Practices on Soil Physical Health in Indo-Gangetic Planes of India	Tillage	Pragati Pramanik Maity	Cape Charles A

1:40pm-2:00pm	Comparison of Field Performance of Four-Wheel Tractor Attached with Rotary Tillers Under Lowland Rice Farming	Tillage	Arthur Libang Fajardo	Cape Charles A
2:00pm-2:20pm	Long-Term Organic and Conventional Cropping Systems Management Influences Soil Strength.	Tillage	Harry Schomberg	Cape Charles A
2:20pm-3:00pm	BREAK			Atlantic Ballroom Foyer
3:00pm-3:20pm	Dry-Wet Cycles are More Effective than Freeze-Thaw Cycles in Compacted Soil Recovery	Tillage	Muhammad Mohsin Nawaz	Cape Charles A
3:20pm-3:40pm	Low Inflation Pressure Tires Reduce the Effect of Agricultural Traffic on Soil Health and Crop Yields	Tillage	Magdalena Kaczorowska-Dolowy	Cape Charles A
3:40pm-4:00pm	Predicting Soil Strength at the Field Scale Using Proximal Sensors and Pedotransfer Function	Tillage	Ameesh Khatkar	Cape Charles A
4:00pm-4:20pm	Impacts of Different Tillage and Cover Crop Management on Soil Physical Qualities and Organic Matter Stocks	Tillage	Ekrem Ozlu	Cape Charles A
4:20pm-4:40pm	In field soil compaction and phosphorus deficiency: effects on cash crops and penetration resistance	Tillage	Andre Auler	Cape Charles A
4:40pm-5:00pm	Design Considerations of Mobility and Traffic Management Systems for Improved Efficiency and Soil Sustainability	Tillage	Diogenes Antille	Cape Charles A
5:00pm-7:00pm	POSTER SESSION (AUTHORS PRESENT) (TILLAGE) AND MIXER			Atlantic Ballroom Foyer
Monday, September 23rd 1:00 pm to 7:00 pm				
12:45pm-4:20pm	MODERATOR	On-farm, applied research and extension	Dr. Danijel Jug	Mariner Room
1:00pm – 1:20pm	Use of Slug Shingle Refuge Traps in No-Till Fields to Establish Treatment Threshold and Slug Hatch Prediction Models in Full-Season Soybeans in Virginia	On-farm, applied research and extension	Helene Doughty	Mariner Room
1:20pm-1:40pm	Overview of Virginia Cooperative Extension Programs in Virginia's Top Agricultural Counties	On-farm, applied research and extension	Theresa Pittman	Mariner Room
1:40pm-2:00pm	Extension Agent Led on-Farm Soybean Research in Virginia	On-farm, applied research and extension	Scott Reiter	Mariner Room
2:00pm-2:20pm	ALFA™, A Gel-Formulated Soil Inoculant Improves Tolerance to Abiotic Stress, Plant Health, and Yield	On-farm, applied research and extension	Cassandra Rieser	Mariner Room

2:20pm 3:00pm	BREAK			Atlantic Ballroom Foyer
3:00pm- 3:20pm	Supporting Farmers Towards on Regenerative Agriculture	On-farm, applied research and extension	Michael Geloan	Mariner Room
3:20pm- 3:40pm	Proactive Nutrient Monitoring of Soybean Leaf Potassium Concentrations	On-farm, applied research and extension	Carrie Ortel	Mariner Room
3:40pm- 4:00pm	The Dashboard as a Tool for Monitoring the Improvement of Soil Fertility and Support Agroecological Transition	On-farm, applied research and extension	Stephane Cadoux	Mariner Room
5:00pm- 7:00pm	POSTER SESSION (AUTHORS PRESENT) (TILLAGE) AND MIXER			Atlantic Ballroom Foyer
Monday, September 23rd 1:00 pm to 7:00 pm				
12:45pm- 5:00pm	MODERATOR	Environmental quality	Dr. Nick Holden	Cape Henry C
1:00pm- 1:20pm	Effectiveness Of Using FGD Gypsum to Reduce Dissolved P Losses from A Corn Field Receiving Poultry Litter	Environmental quality	Dexter Watts	Cape Henry C
1:20pm- 1:40pm	Commercial Wood Biochar Reduces Nutrient Leaching from Inorganic Fertilizers in A Sandy Loam Soil: Effects of Feedstock Types and Nutrient Forms	Environmental quality	Huijie Gan	Cape Henry C
1:40pm- 2:00pm	The Influence of Crop Rotation, Monoculture, And Intensive Farming on Phenolic Compounds of Winter Rye (Secale Cereale L.) Roots	Environmental quality	Mindaugas Dorelis	Cape Henry C
2:00pm – 2:20pm	Improving the Analysis of In-Season Effects of Cover Crops, Crop Rotation and Tillage on Nitrate Leaching Using a Generalized Additive Model Approach for Time-Series Data	Environmental quality	Jorge Federico Miranda-Vélez	Cape Henry C
2:20pm- 3:00pm	BREAK			Atlantic Ballroom Foyer
3:00pm- 3:20pm	Geospatial Analysis of Nutrient Transport from Watersheds on the Eastern Shore, Virginia, USA	Environmental quality	Thomas Badon	Cape Henry C
3:20pm- 3:40pm	Greenhouse Gas Emissions in Response to Tillage and Crops in Sugar Beet-Spring Wheat-Pea Rotation	Environmental quality	Upendra Sainju	Cape Henry C
3:40pm- 4:00pm	Dairy Effluents Applications to a Pasture Enhance Soil Microbial Activity and Fertility Without Impacting Soil Bacterial and Fungal Communities	Soil biology and biochemistry	Gabriela Illarze	Cape Henry C
4:00pm- 4:20pm	Microplastics' Impact: Altering Soil Stability and High-Energy Moisture Dynamics	Environmental quality	Nasrollah Sepehrnia	Cape Henry C

4:20pm-4:40pm	Assessment of Irrigation Dam for Sustainable Agricultural Production in Kwara State Polytechnic	Environmental quality	Dauda Kola Abdulkadir	Cape Henry C
5:00pm-7:00pm	POSTER SESSION (AUTHORS PRESENT) (TILLAGE) AND MIXER			Atlantic Ballroom Foyer
Tuesday, September 24th 7:00am-1:00pm				
7:00am-8:00am	BREAKFAST (provided)			Atlantic Ballroom
8:00am-5:00pm	REGISTRATION			Atlantic Ballroom Foyer
8:00am-5:00pm	POSTER SESSION DISPLAYED (SOIL AND WATER, SOIL FERTILITY, PRECISION AG, ON-FARM RESEARCH, CROP PROTECTION)			Atlantic Ballroom Foyer
8:45am-12:00pm	MODERATOR	Regenerative agriculture	Dr. Dexter Watts	Atlantic Ballroom
9:00am-9:20am	Effect of crop residues management on soil physio-chemical properties, macrofauna population and crop yield: An Overview	Regenerative Agriculture	Joshua Olaoye	Atlantic Ballroom
9:20am-9:40am	Unlocking a “Good Soil Discount”: Quantifying the Risk Reducing Benefits of Soil Health Practices	Regenerative Agriculture	Aria McLauchlan	Atlantic Ballroom
9:40am-10:00am	Analysis of Soil Pore Anisotropy Induced by Bio-Subsoiler Roots	Regenerative Agriculture	Mansonia Alejandra Pulido Moncada	Atlantic Ballroom
10:00am - 10:20pm	BREAK			Atlantic Ballroom Foyer
10:20am-10:40am	Cover Crop - Reduced Tillage Systems Without Herbicides and Chemical Fertilizers in Onion Cultivation: Promising but Challenges Remain	Regenerative Agriculture	Mariana Scarlato	Atlantic Ballroom
10:40am – 11:00pm	Effect of Implement Weight on the Performance of the Disc Plough	Tillage	Utunji Isaac Tanam	Atlantic Ballroom
11:00am-11:20am	Impact of Strip-Till and No-Till Systems on Soil, Crop, and Environment	Tillage	Zita Kriauciuniene	Atlantic Ballroom
11:20am-11:40am	Does No-Till Farming Produce Unfavorable Soil Physical Conditions That Impairs Maize Growth in Northeast China?	Tillage	Li Wang	Atlantic Ballroom
11:40am-12:00pm	Conservation Tillage Increased Lodging Resistance of Maize in the Black Soil Region of Northeast China	Tillage	Hu Zhou	Atlantic Ballroom
12:00pm–1:00 pm	LUNCH (Provided)			Atlantic Ballroom

Tuesday, September 24th 7:00am-1:00pm

7:00am-8:00am	BREAKFAST (provided)			Atlantic Ballroom
8:00am-5:00pm	REGISTRATION			Atlantic Ballroom Foyer
8:00am-5:00pm	POSTER SESSION DISPLAYED (SOIL AND WATER, SOIL FERTILITY, PRECISION AG, ON-FARM RESEARCH, CROP PROTECTION)			Atlantic Ballroom Foyer
7:45am-12:00pm	MODERATOR	Global food security challenges	Dr. Xinjun Huang	Cape Charles A
8:00am-8:20am	Pilot Exchange Program to Tackle Food Security Challenges in Ghana Through Community Gardens	Global food security challenges	Mary Michael Lipford Zahed	Cape Charles A
8:20am-8:40am	Improving Food and Nutrition Security and Health in Ghana: The Impact of the Home Gardening Ghana Facebook Page	Global food security challenges	Frank Ackah	Cape Charles A
8:40am - 9:00am	Integrated Use of Organic Amendments Increased Mungbean (<i>Vigna Radiata</i> (L.) Wilczek) Yield and Its Components Compared to Inorganic Fertilizers	Global food security challenges	Andre Diatta	Cape Charles A
9:00am - 9:20am	Assessing the transition to organic farming and soil tillage practices from the perspective of farmers	Global food security challenges	Apolka Ujj	Cape Charles A
9:20am-9:40am	Measurement and Estimation of Evapotranspiration and Infiltration Fluxes in a No-Till Maize Field: a Long-Term Experiment Study	Soil and water management	Yili Lu	Cape Charles A
9:40am-10:00am	Conserving Soil for the Future: USDA-Natural Resources Conservation Services, Accomac Field Office	Soil and water management	Jenny Templeton	Cape Charles A
10:00am - 10:20am	BREAK			Atlantic Ballroom Foyer
10:20am - 10:40am	Adaptive Subsurface Drip Irrigation Strategies for Enhancing Corn Yield in Eastern Virginia	Soil and water management	Unius Arinaitwe	Cape Charles A
10:40am - 11:00am	Saturated Hydraulic Conductivity Can Be Affected by Limes and Phosphogypsum Reapplications on No-Tillage? Residual and Initial Effects	Soil and water management	Andre Auler	Cape Charles A
11:00am - 11:20am	Improving Soil Quality Through Agroecological Practices Incorporation	Soil fertility and plant nutrition	Jana Marjanović	Cape Charles A
11:20am - 11:40am	Utilizing cover crops to maximize ROI and achieve farm goals	Soil fertility and plant nutrition	W. Hunter Frame	Cape Charles A
12:00pm – 1:00 pm	LUNCH (Provided)			Atlantic Ballroom

Tuesday, September 24th 7:00am-1:00pm

7:00am-8:00am	BREAKFAST (provided)			Atlantic Ballroom
8:00am-5:00pm	REGISTRATION			Atlantic Ballroom Foyer
8:00am-5:00pm	POSTER SESSION DISPLAYED (SOIL AND WATER, SOIL FERTILITY, PRECISION AG, ON-FARM RESEARCH. CROP PROTECTION)			Atlantic Ballroom Foyer
7:45am-12:00pm	MODERATOR	Precision agriculture and modeling	Dr. Ying Zhao	Mariner Room
8:00am-8:20am	Process-Based Modeling Insights into Annual Weather Variability Effects on Corn Yields in a Long-Term Experiment	Precision agriculture and modeling	Kathryn White	Mariner Room
8:20am-8:40am	Soil Mapping for Carbon Sequestration and Regenerative Agriculture Using Gamma Analysis Technology	Precision agriculture and modeling	H. Allen Torbert	Mariner Room
8:40am-9:00am	Measuring and Mapping Soil Moisture in Agricultural Fields by Neutron-Gamma Analysis	Precision agriculture and modeling	Galina Yakubova	Mariner Room
9:00am - 9:20am	Optimization of a Sweep Geometry and Working Parameters Using Discrete Element Method and Genetic Algorithm	Precision agriculture and modeling	Bence Szabó	Mariner Room
9:20am - 9:40am	Development of a Two-Way Coupled DEM-FEM Simulation Procedure and Software for Modelling Soil-Passive Vibration Tool Interaction	Precision agriculture and modeling	László Pásthly	Mariner Room
9:40am-10:00am	Development of a 3-Dimensional Discrete Element Software for Modelling Soil-Tool-Deformable Object Interactions in Tillage Processes	Precision agriculture and modeling	László Pásthly	Mariner Room
10:00am - 10:20am	BREAK			Atlantic Ballroom Foyer
10:20am - 10:40am	Unmanned Aerial Systems bring innovation to agriculture sector	Precision agriculture and modeling	Vijay Singh	Mariner Room
10:40am - 11:00am	Cover Crop Decision Support Tools: Free, Open-source Resources for U.S. Agriculture Professionals	Precision agriculture and modeling	Kayla Driver	Mariner Room

11:00am - 11:20am	Crop Growth Under-Performance: A Theoretical Approach for Agronomic Interpretation of Earth Observation Data Through the Growing Season	Precision agriculture and modeling	Nick Holden	Mariner Room
11:20am - 11:40am	Emerging Intelligent Irrigation Technologies and Their Prospects in Minimizing Crop Damage During Production	Precision agriculture and modeling	Kehinde Alabi	Mariner Room
11:40am – 12:00pm	Model to Simulate Fuel Consumption and Sowing Performance Based on Adjustable Settings on Tractor-Tire-Tool System for Barley on Loamy Soil	Precision agriculture and modeling	Hamza Mohieddinne	Mariner Room
12:00pm – 1:00 pm	LUNCH (Provided)			Atlantic Ballroom
Tuesday, September 24th 7:00am-1:00pm				
7:00am-8:00am	BREAKFAST (provided)			Atlantic Ballroom
8:00am-5:00pm	REGISTRATION			Atlantic Ballroom Foyer
8:00am-5:00pm	POSTER SESSION DISPLAYED (SOIL AND WATER, SOIL FERTILITY, PRECISION AG, ON-FARM RESEARCH, CROP PROTECTION)			Atlantic Ballroom Foyer
7:45am-12:00pm	MODERATOR	Regenerative Agriculture	Dr. Huijie Gan	Cape Henry C
8:00am-8:20am	Cover Crop Biomass, Benefits, and the Importance of Fall Versus Spring Sampling	Regenerative Agriculture	Nathan Sedghi	Cape Henry C
8:20am-8:40am	Soil Organic Carbon, Water Availability and Vegetable Crops Yields in Rotation with In-Situ Grown Cover Crops on Conventional and Reduced Tillage Systems	Regenerative Agriculture	Florencia Alliaume	Cape Henry C
8:40am-9:00am	Impact Of Crop Rotations and Crop Residue on Soil Organic Fractions in Temperate Regions	Regenerative Agriculture	Mauricio Bustamante	Cape Henry C
9:00am - 9:20am	Assessing Soil Chemical Properties from Crop Silage Pasture Rotation Intensity	Regenerative Agriculture	Guillermo Siri	Cape Henry C
9:20am - 9:40am	The Positive Contribution of the Mineral Inducer Process-Based Biostimulants to Sustainable Agriculture in the Current Climate Changes	Regenerative Agriculture	Benoit LeRumeur	Cape Henry C
9:40am-10:00am	Long Term Application of Soil Biostimulant Positively Contributes to The Soil Health and Structural Organization	Regenerative Agriculture	Benoit LeRumeur	Cape Henry C
10:00am - 10:20am	BREAK			Atlantic Ballroom Foyer
10:20am - 10:40am	Elements of Sustainable Intensified Agricultural Systems with Cover Crop Inclusion	Regenerative Agriculture	Shalamar Armstrong	Cape Henry C

10:40am - 11:00am	Regenerative Agriculture - Seeking Sustainable Farming Systems Through Integrated Management Approaches.	Regenerative Agriculture	Nathan Morris	Cape Henry C
11:00am - 11:20am	The Integration of Cover Crops and Soil Tillage to Improve Crop Production Efficiency in a Long Running UK Field Experiment	Regenerative Agriculture	Nathan Morris	Cape Henry C
11:20am - 11:40am	A Simple Spade Method for a Scaled-Up Assessment of Soil Structure by Advisors and Farmers	Regenerative Agriculture	Stéphane Cadoux	Cape Henry C
11:40am - 12:00pm	Efficiency of the Biomethod for Reducing Carbon Dioxide from the Soil	Regenerative Agriculture	Kristina LekaviČienė	Cape Henry C
12:00pm – 1:00pm	LUNCH (Provided)			Atlantic Ballroom
Tuesday, September 24th 1:20pm-7:30pm				
1:05pm-4:40pm	MODERATOR	Soil and water management	Dr. Nirmalendu Basak	Atlantic Ballroom
1:20pm-1:40pm	Synthesis, Characterization, and Sustainable Applications of Nanocellulose-Based Hydrogels Derived from Vitex Doinna for Precision Water Management	Soil and water management	Abubakar Ibrahim Suleiman	Atlantic Ballroom
1:40pm-2:00pm	Light Colour Effect on the Performance of Vegetables Grown in a Confined Environment with the Use of Drip Irrigation	Soil and water management	Oke Afolabi	Atlantic Ballroom
2:00pm-2:20pm	Assessment of Physical Properties of Light Mountain Chestnut Arable Soils Under Rainfed Conditions in Azerbaijan	Soil and water management	Asmar Ahmadova	Atlantic Ballroom
2:20pm-3:00pm	Rice Productivity and Stability on Contrasting Crop-Pasture Rotation Systems	Regenerative Agriculture	Jose Terra	Atlantic Ballroom
3:00pm-3:20pm	Investigating Crop Cultivation in Sloping Lands and the Environmental Challenges of Water and Soil and Floods	Soil fertility and plant nutrition	Hosein Ghasemnezhad	Atlantic Ballroom
3:20pm-5:00pm	POSTER SESSION (AUTHORS PRESENT) AND BREAK			Atlantic Ballroom Foyer
5:00pm-6:00pm	SOIL AND TILLAGE RESERCH JOURNAL; Moderator: Dr. Ole Wendroth, Chief-Editor			Atlantic Ballroom
6:00pm-7:30pm	ISTRO GENERAL ASSEMBLY; Moderator: Dr. Lars Juhl Mulholm			Atlantic Ballroom
Tuesday, September 24th 1:00pm-7:30pm				
12:45pm-4:40pm	MODERATOR	Soil fertility and plant nutrition	Mr. Carl Thiel-Goin	Cape Charles A
1:00pm-1:20pm	Soil Chemistry Determinations Using Neutron-Gamma Analysis	Soil fertility and plant nutrition	Aleksandr Kavetskiy	Cape Charles A
1:20pm-1:40pm	Economic and Yields Benefits of Using Cover Crops to Reduce Nitrogen Fertilizer Inputs in Corn Production on U.S, Coastal Plain Soils	Soil fertility and plant nutrition	Joseph Haymaker	Cape Charles A

1:40pm-2:00pm	Evaluating Varying Seeding Methods of Cover Crops on Soil Nitrogen Uptake and Biomass Production	Soil fertility and plant nutrition	Mary Michael Lipford Zahed	Cape Charles A
2:00pm-2:20pm	Cultivation of Soil Health Quality in Coastal Saline Soil: Based on Soil Structure and Microbial Indicators	Soil fertility and plant nutrition	Shenggao Lu	Cape Charles A
2:20pm – 3:00pm	Effects of Reduced Tillage and Agronomy Practices on Physical and Chemical Properties of Sandy Loam Soil and Growth Component of Soybean (<i>Glycine Max</i> L)	Soil fertility and plant nutrition	Ezekiel Olanrewaju Ariyo	Cape Charles A
3:00pm-3:20pm	Soil Structure Conservation and Its Relevance for Pasture Productivity in Grazing Systems on Andosols of Southern Chile	Soil and water management	Jorge Ivelic-Saez	Cape Charles A
3:20pm-5:00pm	POSTER SESSION (AUTHORS PRESENT) AND BREAK			Atlantic Ballroom Foyer
5:00pm-6:00pm	SOIL AND TILLAGE RESERCH JOURNAL; Moderator: Dr. Ole Wendroth, Chief-Editor			Atlantic Ballroom
6:00pm-7:30pm	ISTRO GENERAL ASSEMBLY; Moderator: Dr. Lars Juhl Mulkholm			Atlantic Ballroom
Tuesday, September 24th 1:00pm-7:30pm				
12:45pm-4:40pm	MODERATOR	Precision agriculture and modeling	Dr. Lidong Ren	Mariner Room
1:00pm–1:20pm	Designing and Developing a Two-Row Animal-Drawn Automatic Transplanting Machine for Onion	Precision agriculture and modeling	Adesoji Olaniyan	Mariner Room
1:20pm-1:40pm	Development of an Embedded System for Liquid Fertilizer Application Machine	Precision agriculture and modeling	Sunday Kayode	Mariner Room
1:40pm-2:00pm	Performance Evaluation of Solar Powered Locust Bean Washing Machine	Precision agriculture and modeling	Rasheed Amao Busari	Mariner Room
2:00pm-2:20pm	Effect of Soil Autocorrelational Properties on Regression Model Choice for Mapping Soil Organic Carbon in Hyperspectral Images	Precision agriculture and modeling	Shayan Kabiri	Mariner Room
2:20pm – 3:20pm	Recycling Agrowastes for Soil Water Conservation in a Bioeconomy: a Case Study of Sawdust	Soil fertility and plant nutrition	Samuel Ohanyere	Mariner Room
3:20pm-5:00pm	POSTER SESSION (AUTHORS PRESENT) AND BREAK			Atlantic Ballroom Foyer
5:00pm-6:00pm	SOIL AND TILLAGE RESERCH JOURNAL; Moderator: Dr. Ole Wendroth, Chief-Editor			Atlantic Ballroom

6:00pm-7:30pm	ISTRO GENERAL ASSEMBLY; Moderator: Dr. Lars Juhl Mulkholm			Atlantic Ballroom
Tuesday, September 24th 1:00pm-7:30pm				
12:45pm-4:20pm	MODERATOR	Regenerative Agriculture	Dr. Naveeda Majid	Cape Henry C
1:00pm – 1:20pm	Enhancing Sustainability in Organic Soybean Farming with Reduced Carbon Footprints Through No-Tillage and Rye Cover Crops	Regenerative Agriculture	Qiliang Huang	Cape Henry C
1:20pm-1:40pm	Litter Decomposition Rate in an Acrisol Seven Years After Rice Straw Biochar Amendment Using the Teabag Approach	Regenerative Agriculture	Peter Bilson Obour	Cape Henry C
1:40pm-2:00pm	Implementing Regenerative Organic Farming in The Asian Monsoon Region Improves Soil Health and Quality for Soybean Production	Regenerative Agriculture	Ratih Kemala Dewi	Cape Henry C
2:00pm-2:20pm	Characterization of Biochar Pellets Using Different Feedstock	Regenerative Agriculture	Arthur Libang Fajardo	Cape Henry C
2:20pm-3:00pm	Long Term Effects of Agronomic Practices on Wheat Yield and NUE in Dryland Regions of USA and China: A Long-Term Meta-Analysis	Regenerative agriculture	Muhammad Adil	Atlantic Ballroom
3:20pm-5:00pm	POSTER SESSION (AUTHORS PRESENT) AND BREAK			Atlantic Ballroom Foyer
5:00pm-6:00pm	SOIL AND TILLAGE RESERCH JOURNAL; Moderator: Dr. Ole Wendroth, Chief-Editor			Atlantic Ballroom
6:00pm-7:30pm	ISTRO GENERAL ASSEMBLY; Moderator: Dr. Lars Juhl Mulkholm, ISTRO Secretary General			Atlantic Ballroom
Wednesday, September 25th 7:00am-5:00pm				
7:00am-8:00am	BREAKFAST (provided)			Atlantic Ballroom
8:00am-5:00pm	TOUR (LOAD BUSES AT 8:00am)			Parking Lot by Main Road
	BUS #1; MODERATOR: Ms. Ursula Deitch, Virginia Department of Agriculture and Consumer Sciences			Eastern Shore
	BUS #2; MODERATOR: Ms. Theresa Pittman, Agricultural Extension Agent, Accomack County, Virginia Cooperative Extension			Eastern Shore
	BUS #3; MODERATOR: Mr. Roy Flanagan, Agricultural Extension Agent, City of Virginia Beach, Virginia Cooperative Extension			Southeast Virginia
	BUS #4; MODERATOR: Dr. Nathan Sedghi, Agricultural Extension Agent, City of Chesapeake, Virginia Cooperative Extension			Southeast Virginia
Thursday, September 26th 7:00am-1:00pm				
7:00am-8:00am	BREAKFAST (provided)			Atlantic Ballroom
7:00am-5:00pm	REGISTRATION			Atlantic Ballroom Foyer
8:00am-5:00pm	POSTER SESSION DISPLAYED (EVIROMENTAL QUALITY, REGENERATIVE AG)			Atlantic Ballroom Foyer

7:45am-12:00pm	MODERATOR	Soil and water management	Dr. Pragati Pramanik	Mariner Room
8:00am-8:20am	Nature-Based Practices Improve Soil Health and Productivity in Saline Soil of Semi-Arid Region	Soil and water management	Nirmalendu Basak	Mariner Room
8:20am-8:40am	New Insights into Overcoming Soil Water Repellency; A Major Tillage Problem	Soil and water management	Naveeda Majid	Mariner Room
8:40am-9:00am	Monitoring the State of Subsoil Compaction in Swedish Arable Soils	Soil and water management	Ararso Etana	Mariner Room
9:00am - 9:20am	Functionality of the Soil Pore System in a Micro-Watershed Formed by Wet Meadows (Vegas) in the Southernmost Chilean Patagonia.	Soil and water management	Jorge Ivelic-Sáez	Mariner Room
9:20am - 9:40am	Fog Water Harvesting Potential Using Passive Harvesters in The Namib Desert	Soil and water management	Hupenyu Allan Mupambwa	Mariner Room
9:40am-10:00am	Fractionation of Soil Evaporative Water Losses Using Hydrogen and Oxygen Stable Isotopes Under Different Mulch Covered Soil-Column	Soil and water management	Mohamad Abdul Kader	Mariner Room
10:00am – 11:00am	POSTER SESSION (AUTHORS PRESENT) AND BREAK			Atlantic Ballroom Foyer
11:00am-11:20am	Development of Agrohydrology in Relation to Critical Zone Science	Soil and water management	Ying Zhao	Mariner Room
11:20am-11:40am	Soil & Water Conservation Districts: What They Can Do for Farms Large or Small	Soil and water management	Julie Head	Mariner Room
12:00pm – 1:00pm	Lunch (Provided)			Atlantic Ballroom
Thursday, September 26th 7:00am-1:00pm				
7:00am-8:00am	BREAKFAST (provided)			Atlantic Ballroom
7:00am-5:00pm	REGISTRATION			Atlantic Ballroom Foyer
8:00am-5:00pm	POSTER SESSION DISPLAYED (EVIRONMENTAL QUALITY, REGENERATIVE AG)			Atlantic Ballroom Foyer
7:45am-12:00pm	MODERATOR	Tillage	Dr. Art Fajardo	Cape Charles A
8:00am-8:20am	Evaluation of the Accuracy of Terranimo® in Predicting the Risk of Soil Compaction for Agricultural Operations Carried Out Under the Pedoclimatic Conditions of Northern France	Tillage	Carolina Ugarte	Cape Charles A
8:20am-8:40am	Assessing Machinery-Induced Compaction During Land Use Change: A Laboratory Evaluation Study	Tillage	Shoaib Ahmed	Cape Charles A

8:40am-9:00am	Lessons From 10 Years of Direct Seeding Under Cover Crop in Organic Agriculture	Tillage	Joséphine Peigné	Cape Charles A
9:00am - 9:20am	The Effect of Maize Cultivation with Under Sown Intercrops on Yield	Tillage	Pavĺína Smutnā	Cape Charles A
9:20am - 9:40am	The Effect of Maize Cultivation with Undersown Intercrops on Soil Fertility and Reduction of Soil Erosion	Tillage	Vladimir Smutny	Cape Charles A
9:40am – 10:00am	Spatio-Temporal Dynamics of Soil Penetration Resistance Depending on Different Conservation Tillage Systems	Tillage	Danijel Jug	Cape Charles A
10:00am – 11:00am	POSTER SESSION (AUTHORS PRESENT) AND BREAK			Atlantic Ballroom Foyer
11:00am - 11:20am	Present State of Soil Structure: A Comparison of Cropland and Grassland Soils in North Germany	Tillage	Conrad Wiermann	Cape Charles A
11:20am - 11:40am	Possibilities to Use Plant Roots to Loosen Up Subsoil Compaction on a Silt Soil in South-East Norway	Tillage	Till Seehusen	Cape Charles A
11:40am – 12:00am	A Preliminary Modelling Framework for Spatialization of Soil Compaction at the Field Scale	Tillage	Alvaro Calleja Huerta	Cape Charles A
12:00pm – 1:00pm	Lunch (Provided)			Atlantic Ballroom
Thursday, September 26th 7:00am-1:00pm				
7:00am-8:00am	BREAKFAST (provided)			Atlantic Ballroom
7:00am-5:00pm	REGISTRATION			Atlantic Ballroom Foyer
8:00am-5:00pm	POSTER SESSION DISPLAYED (ENVIRONMENTAL QUALITY, REGENERATIVE AG)			Atlantic Ballroom Foyer
7:45am-12:00pm	MODERATOR	Regenerative Agriculture	Dr. Frank Ackah	Cape Henry C
8:00am-8:20am	Honeybee Pollination Efficiency for Conventional and Twin-Row Seeded Sunflower	Regenerative Agriculture	Bojan Stipesevic	Cape Henry C
8:20am-8:40am	Strategies of Crop Diversification, Cover Crop Implementation and Flexible Tillage to Improve Soil Fertility and The Multi-Performance of Cropping Systems	Regenerative Agriculture	Domitille Jamet	Cape Henry C
8:40am-9:00am	Tillage Practices Impact Soil Structural Characteristics Related to the Prevalence of Anoxic Conditions Along a Pedoclimatic Gradient	Regenerative Agriculture	Loraine Ten Damme	Cape Henry C
9:00am-9:20am	Restoring Degraded Lands Through Grass-Legume Mixtures Can Improve Soil Functionality in the Semi-Arid India	Regenerative Agriculture	Avijit Ghosh	Cape Henry C
9:20am-9:40am	Root Growth of Perennial Green Fallow Crops in Macropores of Fine-Textured Soils	Regenerative Agriculture	Laura Alakukku	Cape Henry C

9:40am-10:00am	Enhancing Organic Rice Production in Central Japan through No-Till and Cover Crop Management	Regenerative Agriculture	Masakazu Komatsuzaki	Cape Henry C
10:00am-11:00am	POSTER SESSION (AUTHORS PRESENT) AND BREAK			Atlantic Ballroom Foyer
11:00am-11:20am	Livestock Integration and the Role of Roots on Soil Physical Quality Under Conservation Agriculture	Regenerative Agriculture	Karina Cavalieri-Polizeli	Cape Henry C
11:20am-11:40am	The Economics of nutrient cycling at Brandon Farms	On-farm, applied research and extension	Robert Waring	Cape Henry C
11:40am-12:00pm	Virginia Department of Agriculture and Consumer Services	On-farm, applied research and extension	Ursula Deitch	Cape Henry C
12:00pm-1:00pm	LUNCH (Provided)			Atlantic Ballroom
Thursday, September 26th 1:00pm-9:00pm				
12:45pm-4:40pm	MODERATOR	Crop protection	Mr. Jorge Ivelic	Cape Charles A
1:00pm – 1:20pm	Seed Impact Mills: A Potential Tool to Preserve No- And Reduced-Tillage Systems from Herbicide Resistance	Crop protection	Eli Russell	Cape Charles A
1:20pm-1:40pm	Research of Changes in Soil Physical Properties Using Conventional and Autonomous Robotic Inter-Row Cultivation Methods	Crop protection	Indrè Bručienė	Cape Charles A
1:40pm-2:00pm	Herbicide Resistance Expression in Italian Ryegrass in Response to Edaphic Factors	Crop protection	Aniruddha Maity	Cape Charles A
2:00pm-2:20pm	Assessing the Efficacy and Soil Safety of a Reduced Dose Tank-Mix of Pendimethalin and Pyroxasulfone	Crop protection	Nisith Nishank Purohit	Cape Charles A
2:20pm – 3:20pm	POSTER SESSION (AUTHORS PRESENT) AND BREAK			Atlantic Ballroom Foyer
3:20pm-3:40pm	The impact of biofumigation on non-targeted soil arthropods and subsequent host-mediated interactions with aboveground insects	Crop protection	Usha Panta	Cape Charles A
3:40pm-4:00pm	Bed Architecture for Drip-Applied Soil Fumigation in tomato Production	Soil and water management	Emmanuel Torres	Cape Charles A
5:30pm	LOAD BUSES			Hotel Front Parking Lot
6:30pm-9:30pm	SPIRIT OF NORFOLK DINNER CRUISE; Moderator: Dr. Mark Reiter, ISTRO President			Otter Berth
Thursday, September 26th 1:00pm-9:00pm				
12:45pm-4:40pm	MODERATOR	Tillage	Dr. Jim Boyle	Mariner Room

1:00pm – 1:20pm	Persistent Soil Compaction Remains Evident in The Subsoil of a Silt Loam Even After 28 Years	Tillage	Maliheh Fouladidorhani	Mariner Room
1:20pm-1:40pm	High strain rate compression test to represent soil deformation during traffic in the field	Tillage	Mathieu Lamandé	Mariner Room
1:40pm-2:00pm	GIS-Based Assessment of Lowland Rice Areas for Rice Machinery Suitability in Selected Regions of the Philippines	Tillage	Rossana Marie Amongo	Mariner Room
2:00pm-2:20pm	GIS-Based Assessment of Lowland Rice Areas for Rice Machinery Suitability in Selected Regions of the Philippines	Tillage	Rossana Marie Amongo	Mariner Room
2:20pm–3:20pm	POSTER SESSION (AUTHORS PRESENT) AND BREAK			Atlantic Ballroom Foyer
3:20pm-3:40pm	A Comparative Assessment of The Effect of Tillage Methods on Growth Parameters and Yield Performance of Maize in Two Contrasting Agroecological Zones of Rwanda: Towards Efficient and Sustainable Use of Mineral Fertilizers	Tillage	Jean Damascene Tuyizere	Mariner Room
3:40pm-4:00pm	The Alleviation Effects of Different Soybean Genotypes to Soil Compaction	Tillage	Lidong Ren	Mariner Room
4:00pm-4:20pm	Conserving the Future: Wildlife Refuges and the Next Generation	Environmental Quality	Nicole Walker	Cape Henry C
5:30pm	LOAD BUSES			Hotel Front Parking Lot
6:30pm-9:30pm	SPIRIT OF NORFOLK DINNER CRUISE; Moderator: Dr. Mark Reiter, ISTRO President			Otter Berth
Thursday, September 26th 1:00pm-9:00pm				
12:45pm-4:40pm	MODERATOR	Regenerative agriculture	Dr. Nathan Sedghi	Cape Henry C
1:00pm – 1:20pm	Knowledge, Attitude and Practices of Small Holder Farmers on Conservation Agriculture in Rwanda	Regenerative agriculture	Jean Damascene Tuyizere	Cape Henry C
1:20pm-1:40pm	Regeneration of the Subsoil Pore Structure of a Compacted Silt Loam After Five Years	Tillage	Emmanuel Arthur	Cape Henry C
1:40pm-2:00pm	Designing And Modeling Novel Manure Land Application Toolbars Through Numerical Simulations	Tillage	Zhiwei Zeng	Cape Henry C
2:00pm-2:20pm	Effects of the Cone Size of a Cone Penetrometer on the Measured Soil Cone Indices	Tillage	Zhiwei Zeng	Cape Henry C
2:20pm – 3:20pm	POSTER SESSION (AUTHORS PRESENT) AND BREAK			Atlantic Ballroom Foyer
3:20pm-3:40pm	The Nature Conservancy’s Activities within the Virginia Coast Reserve	Environmental Quality	Susan Bates	Cape Henry C

3:40pm-4:00pm	Application of Electromagnetic Conductivity Technology in Soil Management for Tropical Crops	Precision agriculture and modeling	Arturo Bisoño	Cape Henry C
4:00pm-4:20pm	Scalable Solutions for Global Agriculture: Integrating Artificial Intelligence and Natural Language Processing in Biosystems Engineering	Precision agriculture and modeling	Fernando Fuentes	Cape Henry C
5:30pm	LOAD BUSES			Hotel Front Parking Lot
6:30pm-9:30pm	SPIRIT OF NORFOLK DINNER CRUISE; Moderator: Dr. Mark Reiter, ISTRO President			Otter Berth
Friday, September 27th: 7:00am-12:00pm				
7:00am-8:00am	BREAKFAST (provided)			Atlantic Ballroom
8:00am-10:00am	Working Group B: Subsoil Compaction; Moderator: Dr. Karina Cavalieri			Cape Charles A
8:00am-10:00am	Working Group C: Conservation Soil Tillage (CST); Moderator: Dr. Danijel Jug			Mariner Room
10:00am-12:00pm	Working Group F: Visual Soil Examination and Evaluation; Moderator: Dr. Rachel Guimarães			Cape Henry C
10:00am-12:00pm	Working Group K: Controlled Traffic Farming (CTF); Moderator: Dr. Diogenes Antille			Cape Charles A
12:00pm - 1:00 pm	Lunch (provided)			Atlantic Ballroom
1:00pm-3:00pm	POST CONFERENCE ISTRO BOARD MEETING; Moderator: Dr. Lars Juhl Munkholm, ISTRO Secretary General			Cape Henry C

SAFE TRAVELS HOME!