# 51st Tobacco Workers' Conference

## **Preliminary Program**

## V. 01.08.2024

# Monday, January 15, 2024

**Committee Meetings** 

Noon

Lunch

8:00 am – 9:00 am		GAP Certification	
9:00 am – 10:00 am		Production Guide Committee	
3:00 pm – 3:30 pm		Pesticide Committee	
3:30 pm – 4:00 pm		Burley Variety Evaluation Committee and Flue Cured	
		Minimum Standard Committee Joint MeetingRoom 301 D	
Tuesday, January 16, 2024			
8:00 am	Welcome and Opening Remarks: M. Richmond, Program Chair, 51st TWC		
8:10 am	Rema	Remarks from the Tennessee Commissioner of Agriculture: Dr. Charles Hatcher	
8:20 am	The history and importance of tobacco production in Tennessee. J. Aiken, Deputy Commissioner of Agriculture, and tobacco producer		
8:40 am	•	2. A grower's perspective on producing tobacco in the 2020's. A. Pedigo, President, Burley, and Dark Tobacco Producer Association.	
9:00 am	3. Tob	3. Tobacco Science Journal – 65 Years of History. B. Pearce, University of Kentucky	
9:20 am		4. CORESTA Strategy, Cooperation, and Achievements and Perspectives. Stéphane Colard, CORESTA	
9:40 am Break			
10:10 am	5. GAP Connections Update. J. Chadwell, GAP Connections		
10:30 am	6. Updates from the insurance program for tobacco. R. Bell, Director, United States Department of Agriculture		
10:50 am	7. Boots on the ground – US H2-A Labor Program Updates. M. Bryant, Director of Field Services, Tennessee Farm Bureau, and R. Jones, Jones and Church Farms		
11:10 am	8. An Update from the Pesticide Residue Testing Program at NCSU. M. VANN, North Carolina State University, Raleigh, NC, USA		

	Session A – Grand Ballroom F Tobacco Production Presiding: Andy Bailey	Session B – Grand Ballroom G Engineering and Technology Presiding: Matthew Vann
1:10	9. Greenhouse Tobacco Seed Performance Research. T. Reed <sup>1</sup> , S. Irby <sup>2</sup> ; <sup>1</sup> Virginia Tech, Blackston, VA, USA, <sup>2</sup> Virginia Cooperative Extension - Lunenburg County, Kenbridge, VA, UA	10. Analysis of Multiple Energy Saving Technologies Utilized on a Curing Barn. K. Bostian, G.H. Ellington, J.A. Macialek; North Carolina State University, Raleigh, NC, USA
1:30	11. Evaluation of Yield and Leaf Quality in Tobacco Varieties Screened and Unscreened for Low Conversion of Nicotine to Nornicotine. S. Graham, M. Richmond; University of Tennessee, Knoxville, TN, USA	12. Reducing electrical energy usage during curing with a variable frequency drive. G. Ellington, K.E. Bostain, J.A. Macialek; North Carolina State University, Raleigh, NC, USA
1:50	13. Evaluation of maleic hydrazide applied at different times of day in burley tobacco. M. Richmond, A. Counce, T. Clark, R. Hensley; University of Tennessee, Knoxville, TN, USA	14. Systemic Insecticide Application at Transplanting – An Assessment of Imidacloprid Placement. C. Stainback, M. Vann, M. Short, J. Cheek, J. Machacek, D. Ahumada, A. Huseth; North Carolina State University, Raleigh, NC, USA
2:10	15. Comparison of ridging, hilling, and flat planting for water damage incidence, standability, and sucker Control in dark fire-cured tobacco. C. Rodgers <sup>1</sup> , C. Perkins <sup>1</sup> , A. Bailey <sup>1</sup> , M. Richmond <sup>2</sup> , R, Ellis <sup>2</sup> ; <sup>1</sup> University of Kentucky, Princeton, KY, USA, <sup>2</sup> University of Tennessee, Knoxville, TN, USA	16. Early pest detection and among- cultivar variations in susceptibility to insect pests. A. Nikoukar, H. Farrokhzadeh, S. Parizad, U. Panta, M. Vahidi, S. Shafian, A. Rashed; Virginia Tech, Blackston, VA, USA
2:30	17. Burley tobacco yield and leaf chemistry response to topping height under two nitrogen rates in varieties released over time. M. Richmond, W. Bracey, R. Ellis; University of Tennessee, Knoxville, TN, USA	18. High Throughput Data Collection. J. Machacek, M. Vann, J. Cheek; North Carolina State University, Raleigh, NC, USA
2:50	Break	

	Session A – Grand Ballroom F Tobacco Production Presiding: Mitchell Richmond	Session B – Grand Ballroom G Cigar Wrapper Presiding: William Hardee
3:20	19. Impact of Plant Population on Yield and Leaf Quality of Burley Tobacco Varieties. S. Graham, M. Richmond; University of Tennessee, Knoxville, TN, USA	20.Developing nitrogen and potassium fertilizer rate recommendations for cigar wrapper tobacco in North Carolina. M. James, M. Vann, J. Cheek, J. Machacek, D. S. Whitley; North Carolina State University, Raleigh, NC, USA
3:40	21. Adoption of Agricultural Labour Practices driving sustainable tobacco production in Zimbabwe. S. Bauren <sup>1</sup> , E. Matsvaire <sup>1</sup> , N. Prongue <sup>2</sup> ; <sup>1</sup> TIMB, Harare, Zimbabwe, <sup>2</sup> ECLT Foundation, Geneva, Switzerland	22. Comparison of fungicide programs for cigar wrapper leaf production in Connecticut broadleaf tobacco. C. Perkins, C. Rodgers, A. Bailey; University of Kentucky, Princeton, KY, USA
4:00	23. The impact of harvest timing on burley tobacco. M. Richmond, A. Counce, T. Clark, R. Hensley; University of Tennessee, Knoxville, TN, USA	24. Impact of lower leaf removal and fungicide application on cigar wrapper leaf production in Connecticut broadleaf. C. Perkins, C. Rodgers, A. Bailey; University of Kentucky, Princeton, KY, USA
4:20	25. The Effect of Tillage Practice and Cover Cropping Systems on Yield, Quality, and Angular Leaf Spot Occurrence in Dark Tobacco in Tennessee. A. Thelin <sup>1</sup> , V. Sykes <sup>1</sup> , Z. Hansen <sup>2</sup> , D. Saha <sup>1</sup> , M. Richmond <sup>1</sup> ; <sup>1</sup> University of Tennessee, Knoxville, TN, USA; <sup>2</sup> Cornell University, Ithaca, NY, USA	
4:40	26. Tobacco Seedling Production with Alternative Soilless Media Materials. M. Willard, M. Vann, M. James, J. Machacek, J. Cheek, S. ley; North Carolina State University, Raleigh, NC, USA	
5:00	Adjourn	

# Wednesday, January 17, 2024 Technical Sessions

	Session A – Grand Ballroom F Fertility and CPA Evaluations Presiding: Eric Walker	Session B – Grand Ballroom G Foliar Disease Management Presiding: J. Michael Moore
8:00	27. Evaluations of Modern Nozzle Technology for Maleic Hydrazide Application in Flue-Cured Tobacco. J. Cheek, M. Vann, C. Cahoon, G. Ellington; North Carolina State University, Raleigh, NC, USA	28. Evaluation of Fungicides for Control of Pole Rot (Rhizopus arrhizus) on flue-cured tobacco. M. AL-Amery; Canadian Tobacco Research Foundation, Tillsonburg, ON, Canada
8:20	29. Stalk-applied Maleic Hydrazide, Can it Work? J. Cheek, M. Vann, C. Cahoon, G. Ellington; North Carolina State University, Raleigh, NC, USA	30. Quantifying the Effects of Excalia® for Target Spot Control in Flue-Cured Tobacco. C. Stainback, M. Vann, M. Short, D. Ahumada; North Carolina State University, Raleigh, NC, USA
8:40	31. Burley tobacco growth response to sulfur fertilization in Central Kentucky. B. Pearce, T. Valentine, N. Martinez; University of Kentucky, Lexington, KY, USA	32. Management of Angular Leaf Spot Through Chemical Control Options in Dark Tobacco. A.B. Webb <sup>1</sup> , R. Pearce <sup>1</sup> , P. Vinceli <sup>1</sup> , W. A. Bailey <sup>2</sup> , K. Wise <sup>2</sup> ; <sup>1</sup> University of Kentucky, Lexington, KY, USA, <sup>2</sup> University of Kentucky, Princeton, KY, USA
9:00	33. Tobacco growth and yield response to close band placement of liquid fertilizers at-planting. B. Spivey <sup>1</sup> , N. Harrell <sup>1</sup> , M. Vann <sup>2</sup> ; 1NC State Extension Wilson, NC, USA, 2North Carolina State University, Raleigh, NC, USA	34. Evaluation of effects of chemical treatments on tobacco leaf spot diseases. Y. Zeng; Virginia Tech, Blackstone, VA, USA
9:20	35. Exposure of Flue-Cured Tobacco to Sub-Lethal Dose Rates of HPPD-Inhibiting Herbicides. M. Vann; North Carolina State University, Raleigh, NC, USA	36. The rhizosphere microbial community varies among tobacco cultivars with different resistant mechanisms to Phytophthora nicotianae. Y. Zeng; Virginia Tech, Blackston, VA, USA

9:40	37. Cured Leaf Residues Following Various Application Timings and Techniques of Chlorantraniliprole. M. Vann, M. James; North Carolina State University, Raleigh, NC, USA	38. Unraveling Microbiome Dynamics in Phytophthora nicotianae-infested Tobacco Fields with Different Crop Management Methods. A. Bello, D. Reed, Y. Zeng; Virginia Tech, Blackstone, VA, USA
10:00	Break	
	Session A – Grand Ballroom F Economics Presiding: Will Snell	Session B – Grand Ballroom G
10:30	<ul> <li>39. Tobacco Economic Round Table</li> <li>W. SNELL, University of Kentucky</li> <li>G. BOYD, Tobacco Growers         Association of North Carolina</li> <li>D. GREEN, BSC</li> <li>D. JAYSON, TMA</li> </ul>	
11:30	Recognition Luncheon	
1:00	Poster Session	
	Session A – Grand Ballroom F TSNA & Low Alkaloid Tobacco Presiding: David Reed	Session B – Grand Ballroom G Soilborne Disease Management Presiding: Yuan Zeng
2:40	59. Combining Different Genetics-Based TSNA Reduction Strategies in Burley Tobaccos. R. Dewey <sup>1</sup> , H. Ma <sup>1</sup> , R.S. Lewis <sup>1</sup> , S. Goepfert <sup>2</sup> , L. Bovet <sup>2</sup> ; <sup>1</sup> North Carolina State University, Raleigh, NC, USA, <sup>2</sup> Philip Morris Products, S.A., Neuchatel, Switzerland	60. The impact of black shank (Phytophthora nicotianae) presence and nitrogen fertilization on yield and leaf quality of burley tobacco varieties. A.K. Turner and M. Richmond; University of Tennessee, Knoxville, Tennessee, USA

3:00	61. Potential ultra-low nicotine limit in tobacco – can we meet it? A. Fisher <sup>1</sup> , C. Fisher <sup>1</sup> , B. Patra <sup>1</sup> , H. Ji <sup>1</sup> , J. Kinney <sup>1</sup> , S. Yang <sup>2</sup> , S. Slone <sup>1</sup> ; <sup>1</sup> University of Kentucky, Lexington, KY, USA, <sup>2</sup> United States Department of Agriculture, Fargo, ND, USA	62. Impacts of Fungicide and Starter Fertilizer Placement at Transplanting. C. Stainback, M. Vann, D. Ahumada and A. Huset; North Carolina State University, Raleigh, NC, USA
3:20	63. Potassium Source Influences Yield and TSNA of Burley Tobacco in Tennessee. M. Richmond <sup>1</sup> , W. Bracey <sup>2</sup> , R. Ellis <sup>2</sup> ; <sup>1</sup> University of Tennessee, Knoxville, TN, USA; <sup>2</sup> Highland Rim AgResearch and Education Center, Springfield, TN, USA	64. Survival of the Resistant: An Evaluation of Tobacco Varieties in a Black Shank Nursery. A. Counce <sup>1</sup> , M. Richmond <sup>1</sup> , R. Hensley <sup>2</sup> , T. Clark <sup>2</sup> , J. McKinney <sup>2</sup> ; <sup>1</sup> University of Tennessee, Knoxville, Tennessee, USA, <sup>2</sup> Northeast Tennessee AgResearch and Education Center, Greenville, TN, USA
3:40	Break	
	Session A – Grand Ballroom F Foliar Disease Management Presiding: Bob Pearce	Session B – Grand Ballroom G Soilborne Disease Management Presiding: Yuan Zeng
4:10	65. Disease management practices for dark tobacco in Kentucky and Tennessee. A. Bailey, C. Rodgers, C. Perkins, A. Webb; University of Kentucky, Princeton, KY, USA	66. Fusarium Wilt of Tobacco: Unraveling its Complexity and the Susceptibility of Tobacco Varieties. P. Gangwar; Southern Piedmont Agricultural Research and Extension Center, Blackstone, VA, USA
4:30	67. Screening Foliar Fungicides for Target Spot Management in North Carolina. C. Stainback, M. Vann, J. Machacek, J. Cheek, D. Ahumada; North Carolina State University, Raleigh, NC, USA	68. Simple Survey of Soil Microbe Activity Compared to Soil Borne Disease Incidence. K. Foley <sup>1</sup> , F. Scott <sup>2</sup> ; <sup>1</sup> Foley Seed and Service LLC, <sup>2</sup> Scott Brothers Farm, Wilson, NC, USA

4:50	69. Evaluation of Target Spot (Rhizoctonia solani) Fungicide Products and Application Methods on disease occurrence, yield, and leaf quality of Burley Tobacco. K. Turner <sup>1</sup> , M. Richmond <sup>1</sup> , Z. Hansen <sup>2</sup> ; <sup>1</sup> University of Tennessee, Knoxville, TN, USA, <sup>2</sup> Cornell University, Ithaca, NY, USA	70. Field evaluation of fungicides for management of Black shank of tobacco caused by Phytophthora nicotianae on Burley. N. Martinez; University of Kentucky, Lexington, KY, USA
5:10	71. Environmental Factors and Management Practices Associated with Angular Leaf Spot Incidence In Dark Tobacco. A.B. Webb <sup>1</sup> , R. Pearce <sup>1</sup> , P. Vinceli <sup>1</sup> , W. A. Bailey <sup>2</sup> , K. Wise <sup>2</sup> ; <sup>1</sup> University of Kentucky, Lexington, KY, USA, <sup>2</sup> University of Kentucky, Princeton, KY, USA	
5:30	TWC Business Meeting – all attendees are invited to attend	
6:00	Adjourn	

#### **Poster Session**

- **40. Investigating off-type flue-cured tobacco plants.** <u>M. AL-Amery;</u> Canadian Tobacco Research Foundation, Tillsonburg, ON, Canada
- **41.** Occurrences and distribution of Plant-Parasite Nematodes in Lowndes County Georgia **Tobacco.** J. Dawson, I.A. Chowdhury, J. M. Moore; University of Georgia, Tifton, GA, USA
- **42. A Multi-County Survey of Plant-Parasitic Nematodes in North Carolina Tobacco Fields.** <u>A.</u> <u>Gorny,</u> H. Bonyak, E. Davis, M. Vann, R. Lewis; North Carolina State University, Raleigh, NC, USA
- **43.** Annual evaluation of greenhouse media used by Georgia tobacco transplant producers. <u>J.M. Moore</u>; University of Georgia, Tifton, GA, USA
- 44. Evaluation of In-Field Sequential Applications of Actigard® for Tomato Spotted Wilt Management in Late Planted Tobacco. B. Reeves and J.M. Moore; University of Georgia, Tifton, GA, USA
- **45.** On-farm evaluation of new and released tobacco varieties for relative resistance to black shank for potential use in Georgia and Florida in 2021, 2022 and 2023. <u>J. Shealey</u><sup>1</sup>, B. Reeves<sup>1</sup>, T. Barnes<sup>1</sup>, K. Post<sup>1</sup>, D. Bowen<sup>1</sup>, A. Shirley<sup>1</sup>, R. Greene<sup>1</sup>, J. M. Moore<sup>1</sup>, J. Dawson<sup>2</sup>; <sup>1</sup>University of Georgia, Tifton, GA, USA, <sup>2</sup>Fort Valley State University, Valdosta, GA, USA
- **46.** Tomato spotted wilt development in non-treated and imidacloprid treated tobacco plants in multiple Georgia plot locations during the 2023 production season. <u>A. Shirley</u><sup>1</sup>, B. Reeves<sup>1</sup>, T. Barnes<sup>1</sup>, R. Greene<sup>1</sup>, J. Shealey<sup>1</sup>, J. Miller<sup>1</sup>, K. Post<sup>1</sup>, J. Jacobs, J. M. Moore<sup>1</sup>, J. Dawson<sup>2</sup>; <sup>1</sup>University of Georgia, Tifton, GA, USA, <sup>2</sup>Fort Valley State University, Valdosta, GA, USA
- **47. Analytical Methodology for EU Target List Residual Pesticides in Cannabis.** <u>L. Sirkisoon</u>, H.Li, R. Cornelius; Labstat International Inc.
- **48. Flutriafol Residues in Non-Traditional Burley Tobacco.** M. Vann, S. Whitley; North Carolina State University, Raleigh, NC, USA
- **49. Tobacco Nematode Survey in Tattnall and Candler Counties in Georgia.** A. Shirley<sup>1</sup>, I. A. Chowdhury<sup>1</sup>, J. M. Moore<sup>1</sup>, G. Jagdale<sup>1</sup>, J. Shealey<sup>1</sup>, K. Post<sup>1</sup>, B. Reeves<sup>1</sup>, T. Barnes<sup>1</sup>, A. Smith<sup>1</sup>, J. Miller<sup>1</sup>, D. Bowen<sup>1</sup>, R. Greene<sup>1</sup>, W. Brown<sup>1</sup>, J. Jacobs<sup>1</sup>, J. Kichler<sup>1</sup>, M. Frye<sup>1</sup>, J. Dawson<sup>2</sup>; <sup>1</sup>University of Georgia, Tifton, GA, USA, <sup>2</sup>Fort Valley State University, Fort Valley, GA, USA

**50.** Occurrences and Distribution of Plant-Parasitic Nematodes in Tobacco Fields in Lowndes County, Georgia. J. Dawson, I. A. Chowdhury, J. M. Moore, G. Jagdale, J. Shealey, K. Post, B. Reeves, T. Barnes, A. Smith, J. Miller, A. Shirley, D. Bowen, R. Greene, W. Brown, J. Jacobs, J. Kichler, M. Frye; University of Georgia, Tifton, GA, USA

#### **Graduate Student Poster Competition**

The 51st Tobacco Workers' Conference would like to thank the following graduate students for their participation in the 2nd TWC Graduate Student Poster Competition.

- **51.** Evaluation of Yield and Leaf Quality in Burley and Dark Tobacco: Plant population and screened and unscreened for low conversion of nicotine to nornicotine. <u>S. Graham</u>, M. Richmond; University of Tennessee, Knoxville, TN, USA
- **52. Precision Agriculture in Pest Detection.** A. Nikoulkar, H. Farrokhzadeh, S. Parizad, U. Panta, M. Vahidi, S. Shafian, A. Rashed; Virginia Tech, Blackstone, VA, USA
- 53. Agronomic performance and pest susceptibility of low alkaloid burley cultivars in the Regional Quality Trial. M.Ricciardi, N. Martinez, R. Pearce; University of Kentucky, Lexington, KY, USA
- **54. Mancozeb Application in Tobacco: A Revival of an Older Chemistry?** C. Stainback, M. Vann; North Carolina State University, Raleigh, NC, USA
- 55. Assessment of selected burley varieties infected with black shank in the greenhouse. A.K. Turner, M. Richmond, Z. Hansen; University of Tennessee, Knoxville, TN, USA
- **56.** Impacts of Fungicide and Starter Fertilizer Placement at Transplanting. <u>C. Stainback</u>, M. Vann; North Carolina State University, Raleigh, NC, USA
- **57.** Addressing Sucker Control Using Alternative Nozzles and Carrier Volumes to Apply Maleic Hydrazide. M. Willard, M. Vann; North Carolina State University, Raleigh, NC, USA
- **58.** The Effect of Tillage Practice and Cover Cropping Systems on Yield, Quality, and Angular Leaf Spot Occurrence in Dark Tobacco in Tennessee. <u>A. Thelin, V. Sykes, M. Richmond; University of Tennessee, Knoxville, TN, USA</u>