COMMITTEE MEETINGS - Monday, January 16, 2012

12:00 – 1:00 pm  Tobacco Splitworm Biology & Management Project
12:00 – 2:00 pm  Flue-cured & Burley Variety Evaluation Committee
2:00 – 3:00 pm  Flue-cured Regional Growth Regulator Committee
3:00 – 4:00 pm  Tobacco Pesticide Committee
4:00 – 5:00 pm  Flue-cured Variety Quality Committee
5:00 – 5:15 pm  Nominating Committee
5:15 – 5:30 pm  Resolutions
5:30 – 6:00 pm  Executive Committee

6:00 – 7:30 PM  WELCOME RECEPTION - Hosted by Virginia Tech

GENERAL OPENING SESSION – Tuesday, January 17, 2012

8:00  Welcome Remarks: Dr. Charles S. Johnson - Chair, 45th Tobacco Workers' Conference
8:05  Welcome by Virginia Tech: Dr. Alan F. Grant, Dean, College of Agriculture and Life Sciences, Virginia Tech
8:15  Welcome to Virginia, Mr. Todd Haymore, Secretary of Agriculture and Forestry, Commonwealth of Virginia
8:35  Welcome to Virginia from a former Governor of the Commonwealth
9:05  Colonial Agriculture and Tobacco Production, Mr. Wayne Randolph, Colonial Williamsburg Foundation
10:05 Break
10:40 Good Agricultural Practices (GAPs) for Tobacco: An Industry Perspective
Dr. Henri Papenfuss, Alliance One International
11:20 Good Agricultural Practices (GAPs) for Tobacco: A Growers' Perspective
Mr. Stephen Barts, Flue-Cured Tobacco Grower and Extension Agent, Agriculture and Natural Resources, Virginia Cooperative Extension
11:40 Adjourn – Lunch on your own
AGRICULTURAL ECONOMICS - Tuesday, January 17, 2012

Structural Changes in the US Tobacco Industry,
  *Presiding:* M. Velandia, University of Tennessee

1:00  1. Should supply security be a concern to U.S. burley purchasers? *W. Snell,* University of Kentucky.

1:20  2. Effects of the increase in H-2A labor supply on domestic wage and employment in tobacco-growing states. *S. Feleke,* University of Tennessee.


2:40  Discussion

Production Economics/Budgets
  *Presiding:* M. Velandia, University of Tennessee


4:50  10. Production of oriental tobacco in Macedonia with retrospection on tobacco production in the Balkan countries. *Z. Arsov,* Faculty of Agricultural Sciences and Food - Skopje.

5:10  Update on flue-cured tobacco budgets.

AGRICULTURAL ECONOMICS - Wednesday, January 18, 2012

Panel Discussion - Current Tobacco Situation
  *Presiding:* M. Velandia, University of Tennessee

8:00  11. Welcome & Remarks. *M. Velandia,* University of Tennessee


9:20  Panel Discussion

12:00  Recognition Luncheon

1:30  Poster Session

3:50  Section Business Meeting

4:50  General Business Meeting
**AGRICULTURAL ENGINEERING** - Wednesday, January 18, 2012

**Flue-Cured Tobacco Curing Efficiency**  
*Presiding: R. Parker, Philip Morris International*

8:00  **15. Utilization of modulating gas burners in bulk-curing barns.** J. Macialek and G. Ellington; North Carolina State University.


8:40  **17. Evaluation of new heat exchanger technology for flue-cured tobacco bulk barns.** T.D. Reed; Virginia Tech.

9:00  **18. Curing efficiency as affected by using automatic damper controls on flue-cured tobacco barns in South Carolina.** D. Gooden, R. Bett, and B.A. Fortnum; Clemson University.


10:10 **20. The impact of bulk barn pad insulation on energy loss and curing efficiency.** C.T. Clarke and T.D. Reed; Virginia Tech.

10:30 **21. Solar-assisted curing in flue-cured tobacco.** R. Henderson¹, T.D. Reed², D. Gooden¹, and B.A. Fortnum¹; ¹Clemson University, ²Virginia Tech.

10:50 **22. An advanced, continuous-stepping type, curing barn for energy saving.** H. Wang¹, D. Xie², C. Yu¹, Y. Shen¹, X. Wang¹, and X. Tong¹; ¹Zhengzhou Tobacco Research Institute of China National Tobacco Corporation, ²Pingdingshan Filiale of Henan Province Tobacco Corporation, ³Longyan Filiale of Fujian Province Tobacco Corporation.

12:00 **Recognition Luncheon**

1:30 **Poster Session**

3:50 **Section Business Meeting**

4:50 **General Business Meeting**

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**AGRICULTURAL ENGINEERING** - Thursday, January 19, 2012

**Burley & Dark Tobacco Harvesting & Curing - Joint Session with Agronomy**  
*Presiding: D. Fowlkes, Philip Morris International*

8:00  **23. Effects of variety, harvest date, and harvest management on burley tobacco quality.** R.D. Miller¹,², B.R. Neal¹, G.A. Weinberger¹, and R.A. Hensley²; ¹University of Kentucky, ²University of Tennessee.

8:20  **24. Evaluation of methods for wilting standing burley tobacco plants in the field.** B. Herbenor, J. Wilhoit, R.C. Pearce, and W.A. Bailey; University of Kentucky.

8:40  **25. How growing and curing environments impact physical and chemical leaf quality of burley tobacco.** D.R. Peek and T.D. Reed; Virginia Tech.

9:00  **26. Evaluation of the impact of growing season moisture on burley crop quality.** T. Bridges and L. Walton; University of Kentucky.
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9:20  27. Innovative new portable curing system for burley tobacco. L. Grayson; Western Kentucky University.

10:10  28. Mechanical harvesting of burley tobacco in France. L.G. Wells¹, J.L Goudouneche², T.D. Smith¹, G.B. Day V¹, M. Harpring³;¹University of Kentucky, ²Association Nationale Interprofessionnelle et Technique du Tabac, France, ³GCH International, Inc.


AGRONOMY - Tuesday, January 17, 2012

Molecular Engineering
Presiding: C. Fisher, University of Kentucky

1:00  33. Nicotiana hybrids for the contained production of plant-made materials. O. Chambers, R. Mundell, J.H. Rice, R.J. Millwood, C.N. Stewart, Jr., and H.M. Davies; University of Kentucky, Kentucky Tobacco Research & Development Center.


1:40  35. Metabolic engineering of tobacco. L. Yuan; University of Kentucky, Kentucky Tobacco Research & Development Center.


2:20  37. Expression of the Arabidopsis FT gene using a virus-based vector system can induce early flowering in tobacco. R.E. Dewey¹, E. Parker¹, W. Li², Y. Gao², R.S. Lewis¹, and B. Xiao²;¹North Carolina State University, ²Yunnan Academy of Tobacco.


Breeding and Genetics
Presiding: S. Stewart, North Carolina State University


3:50  40. Field evaluation of an introgressed QTL affecting flowering time, leaf number, and possibly yield in flue-cured tobacco. D. Eickholt and R.S. Lewis; North Carolina State University.
4:10  41. Status of the *Nicotiana* germplasm collection at N. C. State University - What to do next? R.S. Lewis; North Carolina State University.

4:30  42. Selection for the low alkaloid trait: Part 1 - phenotypic selection. A. Jack¹, N. Fannin¹, H. Ji², W. Yang², and L. Bush¹; ¹University of Kentucky, ²Kentucky Tobacco Research & Development Center.

4:50  43. Selection for the low alkaloid trait: Part 2 - marker-assisted selection. D. Li, A. Jack and B. Miller; University of Kentucky.

**AGRONOMY - Wednesday, January 18, 2012**

**Sucker Control**  
*Presiding:* W.A. Bailey, Universities of Kentucky and Tennessee

8:00  44. Mechanical sucker control applications in dark and burley tobacco. W.A. Bailey, University of Kentucky.

8:20  45. Sucker control methods for burley tobacco production. R.C. Pearce, University of Kentucky.

8:40  46. Evaluation of chemical compounds and rates for their impact on sucker control, yield and quality of burley tobacco through the Regional Sucker Control Committee. D.R. Peek, Virginia Tech.

9:00  47. Sucker control in burley tobacco with reduced use of maleic hydrazide. H.P. Denton, University of Tennessee.

9:20  48. Nozzle type and arrangement alternatives for improved application of suckercides in burley tobacco. B.R. Neal and R.C. Pearce; University of Kentucky.


10:30  50. Effect of reduced rates of maleic hydrazide on sucker control and MH residues in regional burley tobacco. H.P. Denton¹, C. Click¹, D.R. Peek², S. Whitley³, and R.C. Pearce⁴; ¹University of Tennessee, ²Virginia Tech, ³North Carolina State University, and ⁴University of Kentucky.


12:00  Recognition Luncheon

1:30  Poster Session

**General Agronomy**  
*Presiding:* D.R. Peek, Virginia Tech

2:10  52. Strip-till systems for burley tobacco in Tennessee. H.P. Denton; University of Tennessee.


2:50  54. Tobacco crop monitoring in a deficit irrigation study. T.D. Reed¹, J.R. Baratelli², D. Lankford², and F. Lichtner²; ¹Virginia Tech and ²Earhttec Solutions.

Section Business Meeting

General Business Meeting

AGRONOMY - Thursday, January 19, 2012

Burley & Dark Tobacco Harvesting & Curing - Joint Session with Agricultural Engineering
Presiding: D. Fowlkes, Philip Morris International

23. Effects of variety, harvest date, and harvest management on burley tobacco quality. R.D. Miller1,2, B.R. Neal3, G.A. Weinberger1, and R.A. Hensley2; 1University of Kentucky, 2University of Tennessee.


27. Innovative new portable curing system for burley tobacco. L. Grayson; Western Kentucky University.


ENTOMOLOGY - Tuesday, January 17, 2012

Using New Insecticides in Tobacco
Presiding: H.J. Burrack, North Carolina State University


60. Use of chlorantraniliprole (ryanazapyr) at transplanting for worm control in burley tobacco. H. P. Denton and R. Ellis; University of Tennessee.

61. Budworm and hornworm control on tobacco with Coragen (chlorantraniliprole) and Cynazypyr (HGW86). P.J. Semtner and T.D. Reed; Virginia Tech.

62. A comparison of tobacco budworm control from transplanter water application and delayed directed spray applications of Coragen 1.67SC insecticide. J.M. Moore, T. Varndore, D.C. Jones, S. LaHue, and E. Troxell; University of Georgia.

63. Use of Coragen insecticide in dark tobacco. J.C. Rogers and W.A. Bailey; University of Kentucky.

ENTOMOLOGY - Wednesday, January 18, 2012

Foliar Arthropod Management
Presiding: H.J. Burrack, North Carolina State University

64. Tobacco flea beetle and green peach aphid control on tobacco. P.J. Semtner and T.D. Reed; Virginia Tech.


67. Interactions between systemic insecticides and hymenopteran parasitoids of the tobacco budworm. S.V. Taylor and C.E. Sorenson; North Carolina State University.

Group discussion of new insecticides and potential recommendations

Insect-Transmitted Viruses (TSWV & PVY) - Joint Session with Tobacco Disease Council
Presiding: B.A. Fortnum, Clemson University


70. Incorporating thrips biology into TSWV prediction models. G. Kennedy, H.J. Burrack, T. Chappell, and A. Beaudoin; North Carolina State University.

71. Planting date, Admire and strategic applications of Actigard for management of TSWV. A.S. Csinos, L.L. Hickman, S.S. LaHue, and S. Mullis; University of Georgia.

12:00  Recognition Luncheon
1:30  Poster Session

ENTOMOLOGY - Wednesday, January 18, 2012 (cont)

Insect-Transmitted Viruses (TSWV & PVY) - Joint Session with Tobacco Disease Council
*Presiding:* B.A. Fortnum, Clemson University


2:30  Discussion Session: Regional Cooperation on Tobacco Pest Management

2:50  Entomology Working Group Meeting
*Presiding:* Hannah Burrack, North Carolina State University

3:50  Section Business Meeting

4:50  General Business Meeting

TOBACCO DISEASE COUNCIL - Tuesday, January 17, 2012

Black Shank Resistance and Management,
*Presiding:* H.D. Shew, North Carolina State University

1:00  74. Comparison of methods of applying Ridomil at or near planting time for control of black shank of tobacco. *S. Bost*; University of Tennessee.


2:00  77. Investigation of *N. rustica*-derived black shank resistance in cultivated tobacco. *K. Drake* and R. S. Lewis; North Carolina State University.

2:20  78. Identification of additional Beinhart 1000-derived QTL affecting black shank resistance in tobacco. *P. McCachren* and R. S. Lewis; North Carolina State University.


Managing Bacterial Wilt
*Presiding:* A.L. Mila, North Carolina State University

3:30  80. Comparison of *Ralstonia solanacearum* populations isolated from tobacco and tomato crops in North Carolina. *H.-T. Tseng* and A. Mila; North Carolina State University.

4:10  82. Functional avrA gene in *Ralstonia solanacearum* can elicit a cross protection reaction in mechanically transmitted bacterial wilt. **B.A. Fortnum**, P.D. Peterson, and A. Robertson; Clemson University.

4:30  83. Maleic hydrazide application alters bacterial wilt severity in mechanically topped and harvested tobacco. **P.D. Peterson** and B.A. Fortnum; Clemson University.

4:50  Discussion

TOBACCO DISEASE COUNCIL - Wednesday, January 28, 2012

Microbes on Leaves

*Presiding:* A.S. Csinos, University of Georgia

8:00  84. Comparison of broadcast and directed applications of azoxystrobin for management of foliar diseases of burley tobacco. **K.W. Seebold**, Jr., G. Carter, and J. Henderson; University of Kentucky.

8:20  85. *Is Peronospora tabacina* becoming less sensitive to dimethomorph fungicide? **J.A. LaMondia**; The Connecticut Agricultural Experiment Station Valley Laboratory.


Insect-Transmitted Viruses (TSWV & PVY) - Joint Session with Entomology

*Presiding:* B.A. Fortnum, Clemson University


10:30  69. Predicting *Tomato Spotted Wilt Virus* occurrence in tobacco crops in the southeast US, 2009-2011. **A. Mila**¹, P. Bertrand², B.A. Fortnum³, and C.S. Johnson⁴; ¹North Carolina State University, ²University of Georgia, ³Clemson University, and ⁴Virginia Tech.


11:10  71. Planting date, Admire and strategic applications of Actigard for management of TSWV. **A.S. Csinos**, L.L. Hickman, S.S. LaHue, and S. Mullis; University of Georgia.


12:00  Recognition Luncheon

1:30  Poster Session
Tobacco Disease Council - Wednesday, January 28, 2012 (cont)

Insect-Transmitted Viruses (TSWV & PVY) - Joint Session with Entomology

Presiding: B.A. Fortnum, Clemson University


2:30  Discussion Session: Regional Cooperation on Tobacco Pest Management

2:50  Discussion Session: Current & Future Challenges in Tobacco Disease Management

Presiding: C.S. Johnson, Virginia Tech

3:50  Section Business Meeting

4:50  General Business Meeting

Tobacco Disease Council - Thursday, January 19, 2012

Nematode Management

Presiding: K.W. Seebold, Jr., University of Kentucky

8:00  89. Effects of resistant tobacco on population dynamics of root-knot nematode species in Virginia. J.D. Eisenback; Virginia Tech.

8:20  90. Reproduction and parasitism of Meloidogyne javanica on selected flue-cured tobacco cultivars and breeding lines. W. Ma, C.S. Johnson, and J.D. Eisenback; Virginia Tech.

8:40  91. Comparison of nematicides for management of Meloidogyne arenaria on tobacco. A.S. Csinos, L.L. Hickman, S.S. LaHue, and U. Hargett; University of Georgia.

9:00  92. Comparison of standard and potential new nematicides for tobacco in Virginia. C.S. Johnson; Virginia Tech.

9:20  Discussion Session: Nematode Management

State Disease Loss Updates & Discussion

Presiding: C.S. Johnson, Virginia Tech

10:10  93. Disease loss in Georgia tobacco. P. Bertrand and J.M. Moore; University of Georgia.

10:30  Discussion Session - Tobacco Disease Losses, Disease Management Priorities, Coordinated Responses and Recommendations
Poster Session - Wednesday, January 19, 2012


96. Effect of tray type and tray covering on wicking speed, germination, and spiral rooting of burley tobacco. W.A. Bailey and W.D. Pitt; University of Tennessee.

97. Nitrogen mineralization in different tobacco tillage-rotation systems. C. Zhou, R. C. Pearce, J. Grove, and M. Coyne; University of Kentucky.


100. The nutrient content of tobacco stalks. E.L. Ritchey, R.D. Simpson, W.A. Bailey, and J.L. Gray; University of Kentucky.


102. Comparing Coragen 1.67 SC to other foliar insecticides for control of tobacco budworm in flue-cured tobacco. T. Varnedore, D.C. Jones, and J. M. Moore; University of Georgia.

103. Management of black shank on burley tobacco with transplant-water applications of Ridomil Gold and resistant varieties. C. Ammerman and K.W. Seebold, Jr.; University of Kentucky.

104. Effect of mefenoxam application and host resistance on black shank incidence over three years of testing in Forsythe Co., NC. T. Hambrick, A. Mila, and J.S. Radcliff; North Carolina State University.

105. Recognizing southern stem blight (white mold) as an annual disease of flue-cured tobacco. D. Spaid, J. Price, C. Willis, J.M. Moore, and P. Bertrand; University of Georgia.


107. Evaluation of selected tobacco varieties and resistance to Meloidogyne arenaria. L.L. Hickman and A.S. Csinos; University of Georgia.