74th Tobacco Science Research Conference  
PRELIMINARY PROGRAM – V. August 4, 2021

SUNDAY, AUGUST 29, 2021

3:00 University of Kentucky CTRP Proficiency Program Workshop

6:30 Welcome Reception hosted by Imperial Brands

MONDAY MORNING, AUGUST 30, 2021

Symposium

8:45 WELCOME & OPENING REMARKS: Joe Thompson, Imperial Brands, 74th TSRC Chair

8:55 SYMPOSIUM: "Is Tobacco Harm Reduction at Risk? The Need for Science and Engagement." Chair: Jason Flora, Altria Client Services, Richmond, VA USA

9:00 1. FDA PERSPECTIVE: OPPORTUNITIES FOR HARM REDUCTION. Matthew HOLMAN; U.S Food & Drug Administration, Silver Springs, MD, USA

9:30 2. IS TOBACCO HARM REDUCTION AT RISK? YES. Joe THOMPSON; Imperial Brands Science, Bristol UK

10:00 Break

10:30 3. THE PATH FORWARD ON HARM REDUCTION. Maria GOGOVA; Altria Client Services, Richmond, VA USA

11:00 4. TOBACCO HARM REDUCTION RESEARCH AND CHALLENGES. Brad RODU; University of Louisville, USA

11:30 Panel discussion with all symposium speakers

12:00 Lunch

1:00 Poster Session

5. ASSESSMENT OF IN VITRO TOXICITIES DEMONSTRATED BY TOTAL PARTICULATE MATTER (TPM) GENERATED FROM CURRENT MARKET AND RESEARCH REFERENCE STANDARD CIGARETTES USING THE BHAS-42 PROMOTOR CELL TRANSFORMATION ASSAY. Thomas SHUTSKY1, Kristen G. Jordan1, Kendall T, Szeliga1, Reagan L. McRae1 and Shannon Bruce2; 1RAI Services Company, Winston-Salem, NC USA and 2Millipore and Sigma (BioReliance® Toxicology Testing Services), Rockville, MD USA

6. ANALYSIS OF (S)- AND (R)-NICOTINE IN COMMERCIAL NICOTINE SAMPLES AND E-LIQUIDS AND (R)-NICOTINE PHARMACOLOGY. Gary DULL1 and 2Serban C. Moldoveanu; 1RAI Services Company, Winston-Salem, NC USA and 2R.J. Reynolds Tobacco,
Winston-Salem, NC USA

7. ENDS TOPOGRAPHY ACROSS MULTIPLE PLATFORMS IN AN AMBULATORY SETTING. Gary DULL, Sarah Baxter-Wright, John Darnell, Milly Kanobe, Kristen Prevette, and Jeffrey Smith; RAI Services Company, Winston-Salem, NC USA

8. TRAPPING EFFICIENCY STUDY OF FINE PARTICULATE AEROSOLS IN THE POCKET AND PHILIP COMMERCIAL PERSONAL HANDHELD FILTRATION DEVICES. John GRIMM1, David Wright2, Michael S. Werley3 and Willie J. McKinney4; 1Philter Labs Inc, El Cajon, CA USA, 2IBR Laboratories, Grass Lake, MI, USA, 3Fairview Consulting, Fredericksburg, VA, USA and 4McKinney Regulatory Science Advisors, Henrico, VA, USA

9. ANALYSIS OF ORGANIC ACETATES IN E-VAPOUR PRODUCTS BY GC-MS/MS. Jeff ZHU, Charles Brooks, and Lee Gentry; ITG Brands, Greensboro, NC USA

10. THE EFFECT OF SMALL SAMPLE SIZES ON EVALUATION STATISTICS IN PROFICIENCY STUDIES: A SIMULATION STUDY BASED ON THE IR6F. Stacey SLONE, Brent Shelton, Ruth McNees and Orlando Chambers; University of Kentucky, Lexington, KY USA

11. BIOMARKERS OF POTENTIAL HARM IN SMOKING ABSTINENCE AND IN THE USE OF VUSE ELECTRONIC NICOTINE DELIVERY SYSTEMS (ENDS). Patrudu MAKENA; RAI Services Company, Winston-Salem, NC USA

12. ANALYSIS OF COUNTERFEIT E-LIQUIDS USING FLAVORING PROFILES BY GAS CHROMATOGRAPHY WITH MASS SPECTRAL DETECTION. Lisa LORENZ, Kelsey M. Griffin, and Melanie Parsons; U.S. Food and Drug Administration, Cincinnati, OH USA

13. A 12 MONTH STABILITY STUDY ON JUUL VIRGINIA TOBACCO FLAVORED AEROSOLS USING TWO NON-TARGETED ANALYTICAL METHODS. Mark CROSSWHITE, Lena N. Jeong, Brian Jameson, Anastasia Lioubomirov, Clarissa Yanga, Adam Ozvalda, and I. Gene Gillman; JUUL Labs, Washington, DC USA

14. EXTRACTABLES TESTING PLAN FOR AN IMPROVED DATA COLLECTION NEEDED FOR EFFECTIVE RISK ASSESSMENT IN ELECTRONIC NICOTINE DELIVERY SYSTEM. Harish CHEVVA, Felix Ayala-Fierro, Bryant Hiraki, Kevin Ford, and David Cook; JUUL Labs, San Francisco, CA USA

15. A RETROSPECTIVE ANALYSIS OF CIGARETTE SMOKING AND ENDS USE IN A CONVENIENCE SAMPLE OF ADULT USERS OF BLU AND MYBLU ENDS. Ryan G.N. SELTZER1, Ian M. Fearon2, Trisha L. Houser1, Mitch Nides1, Andrew Tope3, and Xavier Cahours4; 1La Clinical Trials, Burbank, CA, USA, 2whatIF? Consulting, Harwell, UK, and 3Imperial Brands, Bristol, UK

16. ABUSE LIABILITY EVALUATION OF TWO NICOTINE LOZENGES COMPARED TO COMBUSTIBLE CIGARETTE AND NRT LOZENGE IN ADULT SMOKERS. Chris CAMPBELL, Tao Jin, Bobbette Jones, Elaine Round, Eckhardt Schmidt and Sarah Baxter-Wright; RAI Services Company, Winston-Salem, NC USA

17. PHARMACOKINETIC EVALUATION OF E-LIQUID FLAVORS IN THREE VUSE ELECTRONIC NICOTINE DELIVERY SYSTEMS (ENDS). Kyung soo HONG, Patricia (TC) DeLuca, Tao Jin, Bobbette Jones, Eckhardt Schmidt, Paul Nelson and Elaine Round; RAI Services Company, Winston-Salem, NC USA

18. EFFECT OF PH AND STORAGE TEMPERATURE ON E-LIQUID METAL CONCENTRATIONS. Samuel HOCHSTETLER, Rachel Crabtree, Denver Heigter and Vinh-Khai Ngo; Enthalpy Analytical, Richmond, VA USA
19. ANALYSIS AND DIFFERENTIATION OF TOBACCO-DERIVED AND SYNTHETIC NICOTINE SAMPLES. Preston Campbell, Andrew Cheetham, Bonnie Coffa, Jacob Hilldrup, Preston Campbell, Stanley Gilliland and Susan Plunkett; Consilium, Richmond, VA USA and Enthalpy Analytical, Richmond, Virginia, USA.

20. NRF2 RESPONSE TO WHOLE SMOKE AND AEROSOL OF TWO DIFFERENT TOBACCO PRODUCT TYPES IN A 3D HUMAN AIRWAY MODEL. Brian M. Keysor, Robert Leverette, Michael Hollings, Emma Rothwell, John Wertman, Walt Morgan and Wanda Fields; RAI Services Company, Winston-Salem, NC USA and Labcorp Early Development Laboratories, Harrogate, North Yorkshire UK.

21. CHARACTERIZATION OF FREE RADICALS IN CIGARETTE SMOKE AND E-CIGARETTE AEROSOLS BY SPIN-TRAPPING EPR SPECTROSCOPY. Michael Davis, Carolina Clayton Probert, Tatyana Smirnova, Alex Smirnov and G.L. Prasad; R.J. Reynolds Tobacco Company, Winston-Salem, NC USA, North Carolina State University, Raleigh, NC USA and RAI Services Company, Winston-Salem, NC USA.

22. MARKET SURVEY OF MODERN ORAL NICOTINE PRODUCTS: DETERMINATION OF SELECT HPHCS AND COMPARISON TO TRADITIONAL SMOKELESS TOBACCO PRODUCTS. Alexandra Martin, Joseph J. Jablonski and Andrew G. Cheetham; Enthalpy Analytical, Richmond, VA USA.

23. ABUSE LIABILITY EVALUATION OF PORTIONED ORAL NICOTINE PRODUCTS COMPARED TO COMBUSTIBLE CIGARETTE AND NRT GUM IN ADULT SMOKERS. Bobbette Jones, Leanne Campbell, Kristen Prevette, Elaine Round, Eckhardt Schmidt and Sarah Baxter-Wright; RAI Services Company, Winston-Salem, NC USA.

24. IN-VITRO TOXICITY TESTING OF RELX INFINITY TOBACCO AND MENTHOL FLAVORED ENDS PRODUCTS COMPARED TO REFERENCE 1R6F CIGARETTE. Charlene Liu, Emmanuel F. Minet and Donald W. Graff; RELX International, Shenzhen, Guangdong China and Broughton Nicotine Services, Earby, Lancashire UK.

25. ACCELERATED AGING STUDY OF REFERENCE SMOKELESS TOBACCO PRODUCTS. Siqi Guan, Huihua Ji and Lowell Bush; University of Kentucky, Lexington, KY USA.

26. A STATISTICAL METHODOLOGY INTEGRATING RESAMPLING TECHNIQUES TO EVALUATE PUBLIC HEALTH IMPACT AFTER INTRODUCTION OF REDUCED-RISKS PRODUCTS IN JAPAN. Sylvain Larroque, Terushige Kubota, Yuki Kimura, Maurane Charrière and Damien Sonnerat; JT Geneva, Geneva Switzerland and JT, Tokyo, Japan.

MONDAY AFTERNOON, AUGUST 30, 2021

Combined Session
Perception and Behavior Studies

Session Chair: Rana Tayyarah

2:20 PM

27. AMBULATORY USE OF ELECTRONIC NICOTINE DELIVERY SYSTEMS – REDEFINING TOPOGRAPHY ENDPOINTS. Robert Underly, Evan Nudi, Timothy Pionk, and Jeffrey Smith; R.J. Reynolds, Winston-Salem, NC USA.
2:40 PM
28. PREMARKET ASSESSMENT OF CONDITIONAL RISK PERCEPTIONS AND INTENTIONS TO USE THE RELX INFINITY ENDS AMONG NATIONAL PROBABILITY SAMPLES OF ADULT TOBACCO USERS AND NON-USE RS IN THE UNITED STATES. Christopher RUSSELL, Russell Burnett Research and Consultancy, Glasgow Scotland

3:00 PM
29. CURIOSITY AND INTENTIONS TO USE MYBLU E-CIGARETTES AND AN EXAMINATION OF THE GATEWAY THEORY: DATA FROM CROSS-SECTIONAL NATIONALLY REPRESENTATIVE SURVEYS. Ian M. FEARON¹, Ryan G.N. Seltzer², Trisha L. Houser², Mitch Nides², Andrew Tope³ and Xavier Cahours³; ¹whatIF? Consulting Ltd, Harwell UK, ²LA Clinical Trials, Burbank, CA USA and ³Imperial Brands, Bristol, UK

3:20 PM
30. EXAMINATION OF THE IMPACT OF E- LIQUID NICOTINE STRENGTH ON PERCEIVED DEPENDENCE ON MYBLU ENDS. Ian M. FEARON¹, Ryan G.N. Seltzer², Trisha L. Houser², Mitch Nides², Andrew Tope³, Xavier Cahours³ and Thomas Verron³; ¹whatIF? Consulting, Harwell UK, ²LA Clinical Trials, Burbank, CA USA and ³Imperial Brands, Bristol UK

Break

4:10 PM
31. THE BIG VAPE SURVEY UNITED KINGDOM AND THE BIG VAPE SURVEY UNITED STATES. ARE ALL E-CIGARETTES EQUAL OR ARE SOME BETTER THAN OTHERS IN ASSISTING SMOKERS QUIT ATTEMPTS? Andrea PATTON, Gabriel Barnard, Farhana Haseen, Tiffany Hamilton, Evangelos Katsampouris, Venus Marza, Sophie Notley, Neil McKeganey; Centre for Substance Use Research, Glasgow UK

4:30 PM
32. DEVELOPMENT OF RECOMMENDATIONS OF DESCRIPTIVE CONSUMER-REPORTED OUTCOME MEASURES (DESCRIPTIVE-CROM) AND RELATED DEFINITIONS IN TOBACCO AND NICOTINE RESEARCH. Lai WEI¹, Emilie Clerc², Christelle Chrea², Mandara Shetty³, Krishna Prasad³ and Mohamadi Sarkar¹; ¹Altria Client Services, Richmond, VA USA, ²Philip Morris International, Neuchâtel, Switzerland and ³British American Tobacco, Southampton, UK

4:50 PM
33. QUALIFICATION OF TOBACCO TASTE IN TOBACCO-DERIVED NICOTINE (TDN) POUCH PRODUCTS. Jessica ZDINAK and Jennifer Schmidt; Altria Ventures Inc, Richmond, VA USA

5:10 PM
34. AN EVALUATION OF PRODUCT USE BEHAVIORS, NICOTINE UPTAKE, AND SUBJECTIVE MEASURES WITH USE OF TOBACCO AND MENTHOL FLAVORED E-LIQUIDS IN THE RELX INFINITY ELECTRONIC NICOTINE DELIVERY SYSTEM (ENDS) BY CURRENT VAPERS. Donald GRAFF¹, Rebeca Melara², Ramadevi Vemuri² and Catherine Mills²; ¹RELX International, Shenzhen, Guangdong China and ²Altasciences Inc, Laval, QC Canada

Adjourn
TUESDAY MORNING, August 31, 2021

Session A
Reduced Risk Product Standards
Session Chair: Jennifer Smith

Workshop: Tobacco Product Standards for Potentially Reduced Risk Products

8:30 – 9:30 AM
35. PRODUCT STANDARDS FOR POTENTIALLY REDUCED RISK TOBACCO PRODUCTS. Jennifer SMITH, Robert T. Smith and Donna C. Smith; Altria Client Services, Richmond VA USA

36. STANDARDS AND FDA SCIENTIFIC REVIEW. Todd CECIL; U.S Food & Drug Administration, Silver Springs, MD USA

37. NICOTINE STANDARDS. Sarah Evans; Chemular, Hudson MI USA

38. PRODUCT STEWARDSHIP MAXIMIZES THE HARM REDUCTION POTENTIAL OF RRPS. Donna SMITH and Jennifer H. Smith; Altria Client Services, Richmond, VA USA

39. PERFORMANCE SPECIFICATIONS FOR HEATED TOBACCO PRODUCTS — AN OVERVIEW OF BSI PAS 8850:2020. Maxim BELUSHKIN; Philip Morris Products, Neuchatel Switzerland

9:30 AM
Panel Discussion

Session B
Non-combustible Products Chemistry
Session Chair: Fraser Williamson

8:30 AM
41. COMPARISON OF COLLECTION STRATEGIES FOR THE ANALYSIS OF TARGETED COMPOUNDS IN ENDS AEROSOL. J. Brian JAMESON, Bryant J. Hiraki, Adam M. Ozvald, Lena N. Jeong, Xin Chen and I. Gene Gillman; JUUL Labs, Washington, DC USA

8:50 AM
42. CHEMICAL CHARACTERIZATION OF E-VAPOR PRODUCTS USING NON-TARGETED ANALYSIS BY GAS CHROMATOGRAPHY MASS SPECTROMETRY. Michael NOE, Niti H. Shah, John H. Miller, Kimberly A. Agnew-Heard, and William P. Gardner; Altria Client Services, Richmond, VA USA

9:10 AM
43. EVIDENCE FOR ARTEFACTUAL FORMATION OF GLYCIDOL DURING THE ANALYSIS OF E-LIQUIDS. I. Gene GILLMAN, Devon C. O’Regan, Adam M. Ozvald, David K. Cook, Lena Jeong and Xin Chen; JUUL Labs, Washington, DC USA

9:30 AM
44. NICOTINE ANALYSIS FOR MODERN ORAL PRODUCTS IN THE MANUFACTURING WORKSPACE. Ian TINDALL; Cerulean, Milton Keynes, Buckinghamshire UK

9:50 AM
45. COMPOUND IDENTIFICATION PROCESS FOR GC-MS NON-TARGETED ANALYSIS OF JUUL AEROSOL USING A CUSTOM MASS SPECTRAL LIBRARY. Lena JEONG1, M.R. Noc2, N.H. Shah2, S. Chakraborty2, J.H. Miller2 and I. G. Gillman1; 1JUUL Labs, Washington, DC USA and 2Altria Client Services, Richmond, VA USA
10:40 AM  
40. Synthetic Nicotine: Regulatory Issues, Potential Health Risks and Technical Challenges. Bonnie COFFA¹, Kevin Burd², Elizabeth Sprowl³, Stanley Gilliland⁴, Preston Campbell⁵ and Susan Plunkett¹;¹ Enthalpy Analytical, Richmond, VA USA, ²North America Nicotine, Rocklin, CA, ³Pyxus International, Morrisville, NC and ⁴Consilium Sciences, Richmond, VA USA

11:00 AM  
Panel Discussion

10:40 AM  
46. DETERMINATION OF 2-CHLORO-1,3-PROPANEDIOL (2-MCPD) AND 3-CHLORO-1,2-PROPANEDIOL (3-MCPD) IN EMISSIONS OF NICOTINE PRODUCTS BY GAS CHROMATOGRAPHY-MASS SPECTROMETRY (GC-MS). Jiaming WANG, Angel Rodriguez-Lafuente and Peter Joza; Labstat International, Kitchener, ON Canada

11:00 AM  
47. MANAGING CHANGE FOR AUTHORIZED TOBACCO PRODUCTS. Marco ESPOSITO; Philip Morris Products, Neuchatel, Switzerland

11:20 AM  
48. SELECTED ALDEHYDES YIELDS IN THE AEROSOL OF COMMERCIAL ELECTRONIC CIGARETTES. Donatien TAFIN DJOKO; PMI, Boudry, Neuchatel Switzerland

11:40 AM  
49. RESULTS OF A PILOT STUDY ON HPLC SCAN TECHNIQUES FOR IDENTIFYING POTENTIAL FORMULATION PROBLEMS IN COMMERCIAL E-LIQUIDS. John LAUTERBACH; Lauterbach & Associates, Macon, GA USA

12:00 PM – Lunch

1:00 PM – Poster Session

50. COMPARISON OF QUARTZ FILTER COLLECTION AND ELECTROSTATIC PRECIPITATION FOR ANALYSIS OF TRACE METALS IN ENDS AEROSOL. J. Brian JAMESON, Clarissa Yang, David K. Cook, Lena N. Jeong, and I. Gene Gillman; JUUL Labs, Washington, DC, USA

51. AN ANALYSIS OF THE 2020 US NATIONAL YOUTH TOBACCO SURVEY (NYTS) DATA: E-CIGARETTE AND BLU BRAND USE AMONG MIDDLE AND HIGH SCHOOL STUDENTS. Mengran GUO¹, Thomas Verron¹, Xavier Cahours¹, Andrew Tope² and Grant O’Connell²; ¹SEITA – Imperial Brands, Paris France and ²Imperial Brands, Bristol UK

52. DEVELOPMENT OF AN ALTERNATIVE ROTARY-LIKE ENDS COLLECTION METHOD FOR IN VITRO TOXICOLOGY TESTING. Mariano SCIANDALI, Pavel Kosachevsky, Marissa Smith, Lynn Mcfadden, Cameron Sovick, James Smith, Bhasitha Kallam, Emma Press, Travis Pickell, Nirmalben Patel, and Amrita Kumari; Enthalpy Analytical, Richmond, VA USA
53. NICOTINE AND TOBACCO-SPECIFIC NITROSAMINES IN THE MAINSTREAM SMOKE OF COMMERCIAL CIGARS. Zhenyu JIN1, Laura Fenton1, Siqi Guan1, Ying Wu1, Salome Bhagan2, Delshanee Kotandeniya2, Jikun Liu2, Jeannie Jeong-Im2 and Huihua Ji1; 1University of Kentucky, Lexington, KY USA and 2U.S. Food and Drug Administration, Calverton, MD USA

54. EVALUATION OF GASEOUS PHASE NICOTINE IN E-LIQUID NICOTINE SALTS IN E-CIGARETTE AEROSOLS. Tanya JONES1,2, Tanya Jones1,2, Steven Kintner1,2, Sareece Armwood1,2, Ben Illidge1, Huanghai Lu1, Paul Hardman1, Jutta Pani1 and Chunhai Ruan1,2; 1ITG Brands, Greensboro, NC USA, 2Imperial Brands-Lab Network, Hamburg Germany and 3Imperial Brands-Nerudia Liverpool, UK

55. TARGETED CHARACTERIZATION OF THE CHEMICAL COMPOSITION OF NOVEL JUUL PRODUCT AEROSOL AND COMPARISON WITH 3R4F REFERENCE CIGARETTE SMOKE. David COOK, D.C O'Regan, A.O. Ozvald, C. Yang and I.G. Gillman; JUUL Labs, Washington, DC USA

56. DETERMINATION OF ORGANIC ACIDS BY GC-FID: ON CARTRIDGE DERIVATIZATION BY SILYLATING REAGENT (MTBSTFA). Alexander PENNINGTON; Enthalpy Analytical, Durham NC USA

57. BIOLOGICAL AND TOXICOLOGICAL PROPERTIES OF FILTERED CIGARS. David ORREN1, Amrita Machwe1, Samuel B. Clark1, Huihua Ji1, Anne Fisher1, Salome Bhagan2, Delshanee Kotandeniya2, Jikun Liu2 and Jeannie Jeong-Im2; 1University of Kentucky, Lexington, KY USA and U.S. Food and Drug Administration, Calverton, MD USA

58. IVS WORKSHOP SERIES DEVELOPING RECOMMENDATIONS FOR THE OPTIMAL GENERATION AND USE OF IN VITRO ASSAY DATA FOR TOBACCO AND NICOTINE PRODUCTS. Rodger CURREN1, Holger Behrsing1 and Martha M. Moore2; Institute for In Vitro Sciences, Gaithersburg MD USA and 2Martha M Moore LLC, Little Rock, AR USA

59. A QUANTITATIVE ASSESSMENT OF STATEMENTS COMMUNICATING THE REDUCED RISK POTENTIAL OF ELECTRONIC CIGARETTES AND TOBACCO VAPOR PRODUCTS: IMPACTS ON UK ADULTS’ PERCEPTIONS OF VAPING PRODUCTS AND THEIR INTENTION (OR NOT) TO USE/TRY THEM. Daisuke NISHIHARA, Sylvain Larroque, Michael Meger and Maurane Charrière; JT International, Geneva, Switzerland


61. RESOLUTION OF MICRONUCLEUS INDUCTION GENOTOXICITY IN ENDS: IN VITRO AND IN VIVO TESTING. Manoj MISRA1, Ed Carmines1, Mariano Scian2 and David McCormick3; 1Chemular Inc, Hudson, MI USA, 2Enthalpy Analytical, Richmond, VA, USA and 3Illinois Institute for Technology and Research Institute Chicago, IL USA

62. TOXICOLOGICAL AND CHEMICAL EVALUATION OF A LINE OF NOVEL NON-TOBACCO SMOKELESS PRODUCTS. Manoj MISRA1, Ed Carmines1, Lise Fraissinet1 and Mark Hanson2; 1Chemular Inc, Hudson, MI USA and 2Black Buffalo Inc. Chicago, IL, USA
63. NICOTINE TOBACCO PRODUCT HAZARD ASSESSMENT. Lise FRAISSINET, Manoj Misra, Ed Carmines and Kevin Burd; Chemular Inc, Hudson, MI USA

64. THERE IS MORE TO ENDS SAFETY EVALUATION THAN HPHCS – A HOLISTIC APPROACH. Ed CARMINES, Manoj Misra, Lise Fraissinet, Bryan Burd and Kevin Burd; Chemular Inc, Hudson, MI USA

65. DISSOLUTION TESTING OF A NOVEL NON-TOBACCO LONG CUT AND POUCH NICOTINE PRODUCT. Ed CARMINES¹, Lise Fraissinet¹, Alexander Martin² and Mark Hanson³; ¹Chemular Inc, Hudson, MI USA ² Enthalpy Analytical, Richmond, VA USA and ³Black Buffalo Inc, Chicago, IL USA

66. EVALUATION OF THE ABUSE LIABILITY OF A NOVEL NON-TOBACCO SMOKELESS POUCH PRODUCT. Ed CARMINES¹, Karen Carmines¹, Lise Fraissinet¹, Naama Levy-Copperman⁴ and Zach Bader⁵; ¹Chemular Inc, Hudson, MI USA, ²Altros Research Partners, ON Canada and ³Altasciences Clinical Research, Overland Park, KS USA

67. EVALUATION OF THE ABUSE LIABILITY OF A NOVEL NON-TOBACCO LONG CUT SMOKELESS PRODUCT. Ed CARMINES¹, Karen Carmines¹, Lise Fraissinet¹, Naama Levy-Cooperman⁴ and Zach Bader⁵, and Mark Hanson³; ¹Chemular Inc, Hudson, MI USA, ²Altros Research Partners, ON Canada, ³Altasciences Clinical Research, Overland Park, KS USA and ⁴Black Buffalo, Chicago, IL USA

68. HEALTH AND ADDICTION PERCEPTIONS OF A NOVEL NON-TOBACCO SMOKELESS PRODUCT. Ed CARMINES¹, Lise Fraissinet¹, Azure Steele² and Mark Hanson³; ¹Chemular Inc, Hudson, MI USA, ²M/A/R/C Research, Irving, TX USA and ³Black Buffalo, Chicago, IL USA

TUESDAY AFTERNOON, August 31, 2021

Session A
Clinical Studies and Abuse Liability Assessments
Session Chair: Ian Fearon

2:20 PM
69. HUMAN ABUSE LIABILITY ASSESSMENT OF TOBACCO AND NICOTINE PRODUCTS: CONSIDERATIONS TO MEET CURRENT REGULATORY RECOMMENDATIONS. Andrea VANSICKEL¹, Sarah Baxter-Wright², Leanne Campbell², Neil Sherwood³ and Michael C. Kong⁴; ¹Altria Client Services, Richmond, VA USA, ²RAI Services Company, Winston-Salem, NC USA, ³Neil Sherwood Consulting, Nyon, Vaud Switzerland and ⁴Altasciences, Overland Park, KS USA

2:40 PM
70. ABUSE LIABILITY ASSESSMENTS OF MODERN ORAL TOBACCO

Session B
Tobacco and Smoke Chemistry
Session Chair: TBD

2:20 PM
76. DESIGN AND PRODUCTION OF CERTIFIED REFERENCE CIGARS. Orlando CHAMBERS¹, Matt Craft¹, Huihua Ji¹, Stacey Slone¹, Ruth McNees¹, Anne Fisher¹, Colin Fisher¹, Ling Yuan¹, Salome Bhagan², Delshane Kotandeniya², Jikun Liu² and Jeannie Jeong-Im²; ¹University of Kentucky, Lexington, KY USA and ²U.S. Food and Drug Administration, Center for Tobacco Products, Calverton, MD USA

2:40 PM
77. CORRELATION OF NNK LEVELS IN TOBACCO AND MOIST SNUFF WITH THE
PRODUCTS IN ADULT SMOKERS.
Chris CAMPBELL, Sarah Ayoku, Bobbette Jones, Elaine Round, and Sarah Baxter-Wright; RAI Services Company, Winston-Salem, NC USA

3:00 PM
71. ABUSE LIABILITY ASSESSMENT OF VUSE ALTO ELECTRONIC NICOTINE DELIVERY SYSTEM (ENDS) AS COMPARED TO COMBUSTIBLE CIGARETTES AND NICOTINE REPLACEMENT THERAPY (NRT) IN ADULT SMOKERS. Kyung soo HONG, John Darnell, Eckhardt Schmidt, Sarah Baxter-Wright, Paul Nelson and Elaine Round; RAI Services Company, Winston-Salem, NC USA

3:20 PM
72. STUDY ON NICOTINE EXPOSURE LEVEL OF ELECTRONIC CIGARETTE SMOKERS. Chenfeng HUA, Wang Sheng, Zhao Ge, Liu Kejian, Qiao Liangjun, Zhao Junwei, Pan Lining, Shang Pingping, Li Xiang, and Xie Fuwei; Zhengzhou Tobacco Research Institute of CNTC, Zhengzhou, Henan China

LEVELS OF PSEUDOXYNICOTINE AND NICOTINE-1’-N-OXIDE. Serban MOLDOVEANU; R.J. Reynolds Tobacco, Winston-Salem, NC USA

3:00 PM
78. COMPARISON OF 1R6F AND 3R4F SMOKE AND TOBACCO FILLER HPHC MEANS AND STANDARD DEVIATIONS. Michael MORTON, Tammy L. Blake and Karl A. Wagner; Altria Client Services, Richmond, VA USA

3:20 PM
79. ANALYSIS OF PRODUCTIVITY IN THE LABORATORY AND THE ROLE OF OUTSOURCED ASSET MANAGEMENT SERVICES. Benjamin FIELD, Paul Felts, Kevin Keras, Angelo Filosa; PerkinElmer, Waltham, MA USA

Session A
Clinical Studies and Non-Clinical Biological Studies
Session Chair: Ian Fearon

4:00 PM
73. MICROORGANISMS AND ASSOCIATED TOXINS IN CIGARETTES, ENDS, AND OTHER TOBACCO-RELATED PRODUCTS: CURRENT STATE-OF-THE-SCIENCE AND APPLICATIONS FOR MICROBIAL RISK ASSESSMENT. Jillian PARKER¹, Amy K. Madl¹, Antony D.G. Jones¹, Daniel J. Lauer², Rebecca K. Brewster³ and Corey Boles⁴; ¹Cardno ChemRisk, Aliso Viejo, CA USA, ²Cardno ChemRisk, Boulder, CO USA, ³Cardno ChemRisk, Chicago, IL USA and ⁴Cardno ChemRisk, Cincinnati, OH USA

4:20 PM
74. CHARACTERIZATION OF BACTERIAL COMMUNITIES IN

Break

Session B
Tobacco and Smoke Chemistry
Session Chair: TBD

4:00 PM
80. CHEMISTRY AND ANALYTICAL TECHNIQUES FOR CONTEMPORARY SHISHA PRODUCTS. John LAUTERBACH; Lauterbach & Associates, Macon, GA USA
SMOKELESS TOBACCO REFERENCE PRODUCTS UNDER DIFFERENT STORAGE CONDITIONS. Luke MOE; University of Kentucky, Lexington, KY USA

4:40 PM
75. FULL-LENGTH TRANSCRIPTOME ANALYSIS REVEALS CANDIDATE GENES INVOLVED IN DEVELOPMENT AND NICOTINE RESPONSE IN LASIODERMA SERRICORNE. Jianfeng ZHANG¹, Yalong Xu¹, Jingjing Jin¹, Shanyi Chen², Xiaodong Xie¹, Zhong Wang¹, Mingzhu Wu¹, Peijian Cao¹ and Jun Yang¹; ¹Zhengzhou Tobacco Research Institute of CNTC, Zhengzhou, Henan China and ²China Tobacco Fujian Industrial Co, Xiamen, Fujian China

5:15 PM – TSRC Business Meeting – All attendees are encouraged to attend.

6:30 PM – Pre-banquet Reception

Adjourn