



65TH Tobacco Science Research Conference

INSTRUCTIONS FOR THE PREPARATION OF ABSTRACTS

Choose one: <input checked="" type="checkbox"/> Presentation <input type="checkbox"/> Poster (See separate instructions for size)	
PRESENTING AUTHOR: Please type name, institutional affiliation, address, phone and e-mail of the presenting author below. FAMILY NAME should be in all caps. <i>TYPE or PASTE INFORMATION BELOW</i> Jane DOE Acme Tobacco Company Anytown, NC 27000 USA jane.doe@acmetobacco.com 919-555-5000	OTHER AUTHORS: Please type the name, institutional affiliation and location (city, state, country) for each additional author. <i>TYPE or PASTE INFORMATION BELOW</i> John Smith, Acme Tobacco Co.

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Please type your abstract in the section below. The abstract must contain a title, but there is no need to repeat the names and affiliation(s) of the authors. The abstract must also include a brief description of the objectives, the methods used, the results and their implications. The editorial committee reviews and accepts papers based on the abstract. Very short or vague abstracts will not be accepted.

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INFLUENCE OF TIPPING PERFORATION TYPE ON CIGARETTE PERFORMANCE.

Cigarettes were made with tipping perforated via mechanical, electrostatic, and microlaser processes and with nonporous tippings perforated post-production with the on-line laser to investigate causes for smoke yield differences which have been previously shown to arise from different vent designs. Filter efficiency differences owing to vent designs have been proposed as the cause for these yield differences. In the present work, smoke yields of the on-line laser perforated products were higher than those observed with cigarettes with pre-perforated vent designs at comparable nominal dilution levels over a range of 0 to 60%. Filter efficiency measurements of upstream and downstream filter segments did not show differences owing to vent designs. Air dilution measured during smoking showed that the dilution of the laser-perforated products was lower than that found for the pre-perforated products. The differences found in dilution during smoking accounted for the smoke yield differences noted, and were attributed to a difference in the flow dependence of ventilation between the two tipping types. That is, ventilation decreases more rapidly as flow increases for laser-perforated cigarettes than for those made with pre-perforated tipping. When dilution is integrated over a puff with a sinusoidal flow profile, the net effect is a reduction in ventilation for laser-perforated cigarettes.

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1. Please note the following:
 - a. Title. All CAPITAL.
 - b. Names. Enter names to the author boxes only. Use the following format: John M. Smith. Capitalize the FAMILY NAME of the presenting author.
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 - d. Use 12-point fonts, Arial or Courier if possible.
2. **The abstract should be no longer than 275 words** in length and be included in the space designed above. **Abstracts must be submitted electronically via e-mail to editorial@tsrcinfo.com.**
3. Authors should utilize the Word template available on the "Submit Abstracts" page of our web site www.tsrcinfo.com. Type or paste in the information, save it to your computer and then attach the completed template to your e-mail submission.
4. Abstracts must be received no later than **May 27, 2011**. Confirmation of receipt of the abstract will be provided to the principal author via e-mail. **If you do not receive confirmation of receipt by May 31st, assume the abstract was not received and contact Ed Robinson, editorial@tsrcinfo.com.**
5. Questions should be submitted to: Ed Robinson, editorial@tsrcinfo.com, phone: +1 336-335-6625, fax: +1 336-335-6640.
6. **Only PowerPoint presentations** may be used at the conference. If you require other provisions, please contact the Editorial Committee no later than August 1, 2011.
7. Company logo is permitted ONLY on title slide.
8. The maximum presentation time is 20 minutes including questions and answers.

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Name of Submission: INFLUENCE OF TIPPING PERFORATION TYPE ON CIGARETTE PERFORMANCE

Signature: *Jane Doe*

Submitted by: Jane Doe

Date of Submission: March 27, 2011