



**AMERICAN ASSOCIATION OF TEXTILE CHEMISTS AND COLORISTS
TECHNICAL COMMITTEE ON RESEARCH (C3)**

**Report of the 339th Meeting
Wednesday, May 6, 2009 – 5:30-6:30 pm**

The 339th meeting of the Technical Committee on Research took place on Wednesday, May 6, 2009. Elizabeth Eggert, TCR chair, convened the meeting at 5:30 pm.

The following members were present:

Elizabeth A. Eggert TCR Chair
Rembert J. Truesdale III, TCR Vice Chair
Christopher S. Leonard, TCR Secretary

Martin J. Bide
Alan F. Bottenhoff
Adi Chehna
Fred L. Cook
John Y. Daniels
Kenneth Greeson
Peter J. Hauser
Paul L. Johnson

Robert K. Lattie
Richard A. Malachowski
Susan Matter
Shawn Meeks
Luther M. Myers
Guddo S. Nadiger
Nancy PeBenito
David L. Ramey

James E. Rodgers III
Richard S. Simonson
Jerry G. Tew
R. Michael Tyndall
Adam Varley
Michele Wallace
Heidi Woodacre

Others Present:

Preston Aldridge
Ashley Bradham
Aaron Creech
Tricia F. Day
Perry Grady

Suzanne Holmes
Smrithi Kumar
Karen E. Kylo
Kathleen O'Toole
Peggy J. Pickett

S. S. Ramkumar
Louann Spirito
Lisa Strachan
Elizabeth Turnbull
Diana Wyman

Awards/Certificates of Service

President Fred L. Cook presented the following awards: Martin J. Bide, AATCC President's Plaque; Ashley E. Bradham, Outstanding College Graduate of the Year. Past President Martin J. Bide presented to the current president, Fred L. Cook, the SDC Leadership Certificate given to him at the SDC Annual Meeting in April 2009. Preston Aldridge, chair of the Harold C. Chapin Award Committee, presented the Chapin Award to Steve Simonson. This award is usually presented at the AATCC Annual Conference; however, Mr. Simonson was sick and could not attend the conference.

The following outgoing administrative committee chairs were presented *Certificates of Service* from President Cook: *Ann C. Laidlaw, chair, Concept to Consumer Interest Group; *Stephen B. Brooks, chair, Chemical Applications Interest Group; Heidi Woodacre, New England Regional Board Member; Rembert Truesdale III, Southern Regional Board Member and as chair of the Membership Committee; *Kanti Jasani, Central Atlantic Regional Board Member; *R. Frederick Miller Jr., MidSouth Regional Board Member; *Roy Bamford, Western Regional Board Member, chair of the Olney Medal Award Committee and chair of the Employee Benefits Committee; *Jayakumar Gopalakrishnan, International Regional Board Member; *Brooks G. Tippett, chair of the Henry E. Millson Award Committee and J. Preston Aldridge, chair of the Harold C. Chapin Award Committee.

President Cook then presented *Certificates of Service* to the following outgoing ECR Members: Mary N. Brannon and *Brooks G. Tippett. He also presented *Certificates of Service* to the following outgoing AATCC Research Chairs: *Susan A. Gassett, Colorfastness to Crocking; Paul L. Johnson, Stain Resistance; *Sandeep Khatua, Colorfastness to Water; *Kerry M. King, Printing Technology; David L. Ramey, Antimicrobial Activity; *Carol T. Revels, Color Measurement; James E. Rodgers III, Spectroscopic Technologies; and *Todd M. Wernicke, Appearance Retention.

We thank all of these volunteers and their companies for the outstanding service they have provided AATCC. The * denotes those receiving certificates who were not in attendance. Their certificates will be forwarded to them.

Announcements:

Chair Eggert announced the upcoming workshops/symposia. It was also announced the e-Learning Modules are now on AATCC's website.

Chair Eggert noted that the first **TCR Service Award** was presented to Adi B. Chehna at the March AATCC International Conference in Myrtle Beach for his outstanding service as chair of the Technical Manual Editorial Review Board. Mr. Chehna came forward in order to show those present the plaque he received. Chair Eggert announced that TCR is currently taking nominations for the 2010 Nominee and information pertaining to this is on our web site at <http://www.aatcc.org/testing/committees/index.htm>.

RA23, Colorfastness to Water: A TCR letter ballot for proposed revisions of AATCC Methods 15 (Colorfastness to Perspiration), 106 (Colorfastness to Water: Sea) and 107 (Colorfastness to Water) to advise usage of different Multifiber, with minor editorial changes, was submitted. They received one negative which was determined to be an editorial change which will allow the revisions to be published in the 2010 AATCC TECHNICAL MANUAL. TM 104 (Colorfastness to Water Spotting) was submitted to TCR ballot for reaffirmation and received comments which were editorial. These will be made and forwarded for publication in the 2010 MANUAL as well. The proposed revision to TM 162 (Colorfastness to Water: Chlorinated Pool) to add Option 2 and precision and bias data still has outstanding lab results. This work is still ongoing. The study to determine if AATCC control fabric will not change when exposed to fabrics suspected of having finish

that will prevent change of color to control fabric is not complete. FITI agreed to review the finish on the fabric and reproduce this condition and bring back to the committee. If they can do this, the committee will review again. The reduction of test time protocol for AATCC Method 107 was reviewed by those present and approved. One comment indicated that only "cold cut edges multifiber is to be used." This change will be added to the protocol and submitted to committee. A need for a saliva test method was presented to the committee. Members did not think that there is a need for this but would like to see the proposed method for review. The chair will circulate the proposed method to the committee.

RA24, Fiber Analysis: Progress of the 70 laboratory International Rayon/Acetate and Mohair/Wool Proficiency Trials were reviewed. The high level of finish present on the nominal mohair/wool sample was found to render identification more difficult but was found by some participants to be removable via extraction. A comment concerning finish extraction methods will be distributed with the Proficiency Trial results. Results for the rayon/acetate fabric were found to be more consistent than the mohair/wool blend. The upcoming Proficiency Trial blend was confirmed to be spandex/cotton single jersey and a mohair/wool blend free of finish. In furtherance of the efforts of the Spandex Subcommittee, successful ruggedness testing permitted the development of solvent separation Procedure 8 using dimethylacetamide, which was incorporated in a committee ballot along with some editorial and minor technical changes. A single negative vote was incorporated into a new committee ballot by adding more detailed DMAC/Fiber solubility information to TM 20A (Fiber Analysis: Quantitative) and adding an isopropanol final rinse to the chemical separation Procedure 7 and Procedure 8. In furtherance of the efforts of the Elemental Silver Subcommittee, a group of metallic fibers supplied by FITI were analyzed via ICP and SEM/EDX and, based on results, text adding ICP and SEM/EDX for metallic yarn analysis was developed for balloting for inclusion into TM 20 (Fiber Analysis: Qualitative). First Order Red Polarized Light images of eight different fiber types were reviewed for use in a proposed Color Quality Control Aid for Fiber Analysis to be sold by AATCC. These images will be forwarded to Chris Leonard, AATCC technical director, for review. The addition of GB 16-2262-2008 Micrograph Collection for Cashmere Fiber Morphology developed by the Inner Mongolia Erdos Cashmere Group Corporation National Cashmere Products Engineering and Technical Center will be sent to committee ballot as a reference to TM 20.

RA31, Antimicrobial Activity: Proposed reactivation/revision of TM 90 (Antibacterial Activity of Fabrics, Detection of: Agar Plate Method) and revision of TM 147 (Antibacterial Activity Assessment of Textile Materials: Parallel Streak Method) will be balloted for a second committee ballot once the chair of RA99, Technical Manual Editorial Review, has reviewed thoroughly in order to prevent multiple letter ballots. Negative votes on shaving of a third test sample in Part III for the current TM 174 (Antimicrobial Activity Assessment of Carpets) were discussed. ASTM E 2471 is a similarly conducted method. A task group will incorporate a reference to this method in Part III and submit for re-ballot. Interlab trials were discussed to develop a proposed test method for Hydrophobic fabrics. Samples are being produced by Milliken but have not been distributed. The committee is discussing the possibility of creating a training video

for TM 100 (Antibacterial Finishes on Textile Materials: Assessment of). Also, a proposed proficiency testing program is being discussed for Antimicrobial Activity.

RA33, Colorfastness to Atmospheric Contaminants: It was reported for TM 23, Colorfastness to Burnt Gas Fumes, that Testfabrics is almost out of Lot #19 control ribbon. Lot #20 has been dyed and a sample submitted to AATCC. The sample was exposed and is inconclusive. Additional samples will be supplied to AATCC and Testfabrics will send to other labs with gas chambers to help with the exposures. It was reported for TM 109, Colorfastness to Ozone in the Atmosphere under Low Humidities, will be revised to drop the control fabric and insert time and ppm to represent one cycle. This will be submitted to a committee ballot. AATCC needs to replenish the control fabric for TM 129, Colorfastness to Ozone in the Atmosphere under High Humidities. Shaw will help in identifying yarn to be used. AATCC will dye and send out for a round robin. Data from the round robin for TM 164, Colorfastness to Oxides of Nitrogen in the Atmosphere under High Humidities, will generate a precision and bias statement which will undergo a committee ballot.

RA34, Preparation: The recent TCR Ballot for proposed revision of TM 97, Extractable Content of Greige and/or Prepared Textiles, with inclusion of a precision and bias was approved and will be published in the 2010 AATCC TECHNICAL MANUAL. The TCR ballot for reaffirmation of TM 101, Colorfastness to Bleaching with Hydrogen Peroxide, was also approved and will be affirmed in the 2010 AATCC TECHNICAL MANUAL. A committee ballot to merge Committee RA66, Mercerization Test Methods, with RA34 as a subcommittee was submitted to both committees and was approved. It was submitted to the March TCR Ballot and was also approved. Mary Ankeny, current chair of RA66, will now serve as the subcommittee chair for TM 89, Mercerization of Cotton. This method will be updated to include NIR in lieu of titration for Barium number. Comparison of ISO 3071 (pH by Shaker method) to AATCC Method 81 (pH by boil-down) was done by FITI in Korea. It was stated that there is a need to show that the two methods are not the same and that a statement should be added to TM 81 stating this method is not applicable to finished textiles. There will be an interlab study conducted in 2010 with a re-write of Method 81.

RA36, Color Measurement: A revision of TM 173 (CMC: Calculation of Small Color Differences for Acceptability) and EP9 (Visual Assessment of Color Difference of Textiles) was submitted to committee letter ballots. TM 173 was approved and EP9 was approved with comments. TM 173 was then submitted to the March TCR letter ballot, along with proposed reaffirmation of EP7 (Instrumental Assessment of the Change in Color of a Test Specimen). Both were approved and will be submitted for publication in the 2010 AATCC TECHNICAL MANUAL. EP9 (Visual Assessment of Color Difference of Textiles) will be reviewed once again and re-submitted to committee ballot. The Ralph Stanziola Color Rule prototype was circulated for review. Volunteers agreed to test and evaluate the proposed color rule. A proposed rewording of 6.1 in EP1 (Gray Scale for Color Change) as "6.1 In using the Gray Scale, the overall, total color difference or contrast between the original and tested specimens is evaluated. This evaluation procedure is not used to rate the changes in the individual components of lightness,

chroma, and hue. If a description of these component changes is required, the observer may add appropriate qualitative terms to the numerical grade, as illustrated in Table 1.” This wording was deemed as editorial and will be changed in the 2010 AATCC TECHNICAL MANUAL. EP8 (AATCC 9-Step Chromatic Transference Scale) needs to set color coordinates and tolerances for the 9-Step Chromatic Transference Scale. A discussion of EP11 (Spectrophotometer UV Energy Calibration Procedure for Optically Brightened Textiles) on the use of SCI and SCE rendered a decision to collect more information. It was also decided to add a photograph to the procedure to show proper placement. TM 110 (Whiteness of Textiles) relates to EP11. It was decided to wait on the proposed revision of EP11 and do both at the same time. A proposed new evaluation procedure on the “Instrumental Calculation of the Gray Scale for Staining” is undergoing another re-write and will be submitted for committee ballot. The AATCC Delegation for the Inter-Society of Color Council was selected as noted in the November minutes. Discussion of Ganz-Griesser Approach to UV Calibration – Research by Georg Bechmann, Procter & Gamble, will be tabled until the November 2009 meeting. The proposed lighting study for 3500K light sources was discussed and funding will be requested.

RA38, Colorfastness to Crocking: A committee ballot for revision of TMs 8 (Colorfastness to Crocking: Crockmeter Method) and 116 (Colorfastness to Crocking: Rotary Vertical Crockmeter Method) to remove instrumental grading note from the Notes Section and add it to the Evaluation Section of the methods; to add to the Report Section as well; and to include in the Notes Section an option to grade adjacent staining and color change of the crocked specimen, was submitted. The ballot received two negatives which were mainly to do with clarifying which electronic grading systems the notes refer to and do these electronic grading systems have data to demonstrate that they provide equal or better results than an experience grader. The committee decided at the November 2008 meeting to let the negatives stand and to withdraw the ballot leaving the methods as is. The committee once again discussed at the May 2009 meeting the negatives regarding the electronic grading in TM 8. Supporting data was provided for review and the committee will drop the previous ballot as discussed in November. There was a discussion about Note 13.4.1 with reference to specification of greige fabrics weight and it was decided to remove this as well. It was further discussed to change the thread count from ± 3 to ± 5 to make it easier to produce correct fabric weight. There was a concern raised about the lack of verification cloth in TM 116. Textile Innovators will get together with RA57, Floor Covering, on the verification cloth. A concern was also raised about whiteness specification of the crockmeter cloth to be in line with the ISO cloth. It is being proposed to increase the tolerance to ± 5 to resolve. The committee will proposed that this be made as an editorial change.

RA42, Dimensional Change: A recent committee ballot for proposed revisions of TM 150, Dimensional Changes of Garments after Home Laundering, to change the title and scope to include home textile products, resulted in three comments with affirmative votes which were considered valid comments. The comments were to change the proposed title “Dimensional Changes of Textile Products after Home Laundering,” instead of the one balloted. With these changes the text needs to reflect the title changes in 7.4.2, 6.1

and 6.2. Norma Keyes will make these changes and the method will be submitted to another committee ballot. TM 179 (Skewness Change in Fabric and Garment Twist Resulting from Automatic Home Laundering) needs a precision and bias statement and inclusion of side seam twist option added. It was decided to re-write this method separating the side seam twist into a new method. Once this is done, it will be submitted to the committee for review prior to being submitted to a committee ballot. Jodie Lynch distributed a proposed draft for a proposed new method for "Dimensional Stability to Home Laundering for Socks and Hosiery," for review and comments. Changes discussed will be made and submitted to committee ballot. She will also develop data for a precision and bias statement for the method. Ballast fabric specifications were discussed. Testfabrics representative will present data in the future for review and consideration of changes. A question was raised toward if the ballast specifications could be put in a monograph for all test methods to use.

RA43, Professional Textile Care: A proposed TCR ballot for reaffirmation of TM 132 (Colorfastness to Drycleaning) was approved for publication in the 2010 TECHNICAL MANUAL. Bill and Karen Tomko of H2Only Inc. presented a talk on "Wet Cleaning Practices and Consumer Issues," at the November 2008 meeting of RA43. At the May 2009 meeting, interested parties went on a tour of the facility.

RA49, Insect Resistance: The proposed TCR ballot for proposed withdrawal of AATCC Test Method 28, Insect Pest Deterrents for Textiles, was approved and will be removed from the 2010 AATCC TECHNICAL MANUAL. Chuck Klein of BASF Biology and Control presented a very interesting talk on bed bugs, the problems they cause and possible solutions on how to rid your home, etc.

RA50, Colorfastness to Light: The final draft for revision of TM 16 (Colorfastness to Light) was sent to Committee RA99, Technical Manual Editorial Review, for their input prior to balloting. The RA99 committee members had a lot of formatting issues and also suggested that the method only be separated into three parts. The committee will work with RA99 on this proposed change. The Blue Wool subcommittee is pursuing the possibility of inkjet printing. The first testing looks promising. Methods requiring reaffirmations are TM 111 (Weather Resistance of Textiles: Exposure to Daylight and Weather), TM 186 (Weather Resistance: UV Light and Moisture Exposure), TM 192 (Weather Resistance of Textiles: Sunshine-Arc Lamp Exposure With or Without Wetting) and TM 169 (Weather Resistance of Textiles: Xenon Lamp Exposure). These were submitted to TCR with editorial changes and were approved for publication in the 2010 AATCC TECHNICAL MANUAL. There were three comments on the proposed reaffirmations that the committee felt should not hold up the reaffirmations. These will be considered and acted upon for the 2011 MANUAL. An interlab is being conducted with James Heal, Q-Lab and Atlas offering testing services for the ISO 105-B10 Ring Test.

RA56, Stain Resistance: The chair of RA56, Paul Johnson with 3M Co., has tried to resolve several negatives on a recent TCR ballot for proposed revision of TM 130 (Soil Release: Oily Stain Release Method) to no avail. He will submit a request to ECR on the grounds that the negatives are non-persuasive and not relevant. The committee's

preliminary planning for top load washers and High Efficiency (HE) washers to see what the differences are will be put on hold until guidelines are received from RA88, Home Laundering Technology. Also, the committee wishes to consider a proficiency testing program for TM 130. The committee encourages AATCC to oversee a comprehensive study for all test methods for the new machines. Future work on TM 130 is desired expanding the useable stains, particularly for foods. Two members will develop a proposal for the review in November. A request for an odor test will require additional investigation on existing test method. A request for monetary support for a graduate student to do stain comparisons using a traditional top loader and a new HE machine will be requested.

RA57, Floor Covering: Tom Perry with Dow Chemical is heading a subcommittee working to develop a proposed test method for “Moisture Penetration of Textile Floor Covering” to provide a similar method to the British Spill Test. Richard Turner of Mohawk Industries is chairing a subcommittee on Bleach Resistance. Interlabs are being run on both proposed methods. With a new method of dyeing, the color consistency of the chips for the Red 40 Stain Scales has improved. Special thanks was extended to Aaron Creech of the AATCC staff for his diligence in accomplishing this. The committee is still working on a better means of producing the scale. The recent TCR ballot for revision of TM 122 (Carpet Soiling: Service Soiling Method) was approved with editorial comments and will go forward for publication in the 2010 TECHNICAL MANUAL. A proposed laboratory trial for TM 134 (Electrostatic Propensity of Carpets) is being considered for fall 2009.

RA59, Fibrous Test Materials: There was a discussion about the effects of the ECR equipment listing policy concerning test methods that include references to multifiber fabrics. There was a motion to request that all methods with multifiber fabric to include the following statement, “in accordance with Evaluation Procedure 10, Multifiber Adjacent Fabrics: Evaluation of.” Other items about fabric and fiber specifications were discussed and will be brought up at the pertinent committee meeting. More studies on single fiber adjacent fabrics versus “master” multifiber fabrics from various suppliers will be conducted for ISO F-10. It was stated that this has been performed before several decades ago. Committee members suggested that RA59 should have control of specifications to all fibrous test materials; i.e. ballast fabric, except Blue Wool, due to the scope of the committee. The committee is constantly hearing issues concerning more defined “specifications” of single fiber adjacent fabrics from European countries. This will be looked into more. The committee determined that there is a 30 year supply of dyes available from AATCC/SDC for use with EP 10. There was a proposal to develop a microfiber polyester adjacent fabric. It was determined that not enough usage warranted this proposal. Textile Innovators have woven samples available and Testfabrics could produce knit if needed

RA60, Colorfastness to Washing: The proposed revision of TM 61 (Colorfastness to Laundering: Accelerated), Option 1B, to use rubber balls as an alternative to stainless steel balls, was submitted to a TCR ballot and was approved for publication in the 2010 AATCC TECHNICAL MANUAL. TMs 61, 172 (Colorfastness to Powdered Non-Chlorine Bleach in Home Laundering), 188 (Colorfastness to Sodium Hypochlorite Bleach in

Home Laundering) and 190 (Colorfastness to Home Laundering with Activated Oxygen Bleach Detergent: Accelerated) were balloted for inclusion of liquid detergent and were approved. They will proceed to TCR ballot. TM 61 will be balloted at committee for overall method reviews and revisions. AATCC Committee is analyzing precision and bias data for the proposed new Chlorine and Non-Chlorine methods. Karen Kylo of SGS will use this data to create precision and bias statements for both methods. A task force was formed to look at TS-006 of the *Technical Supplement* to resolve open ended items of the method. RA60 agreed that TS-007 should not be included in the TECHNICAL MANUAL since it is embedded in TS-008. However, a statement to the Purpose and Scope will be added that stain results in a full scale test are not likely to correlate with an accelerated method such as TM 61.

RA61, Appearance Retention: The committee drafted and agreed to new language to allow the use of instrumental grading systems in TMs 124 (Appearance of Fabrics after Repeated Home Laundering) and 128 (Wrinkle Recovery of Fabrics: Appearance Method). Additional changes to TM 124, including a title revision, were also discussed and the recommended changes to both methods were sent to committee ballot. It was then sent to a TCR ballot and did not receive any negatives. The proposed changes will be published in the 2010 AATCC TECHNICAL MANUAL. Continuing discussion of a TM 124 training video which is under development was discussed about the possibility of transferring the development to AATCC. Testfabrics agreed to provide data across multiple methods in support of their proposal to expand the fabric construction tolerances in Table 1 of TM 88B (Smoothness of Seams in Fabrics after Repeated Home Laundering), TM 88C (Retention of Creases in Fabrics after Repeated Home Laundering) and TM 124. Ken Greeson of Cotton Incorporated and John Crocker of SDL Atlas agreed to revise Fig. 1 in TMs 88B/C, 124 and 128 to focus on length of the grading board and distance from the wall as the critical measurements instead of angle. Mr. Greeson was nominated and approved as the new chairperson beginning January 2009. Punita Patel was appointed as the new secretary. Lisa Strachan of James H. Heal Co. will be the speaker at the next meeting and will share information on a new instrument that provides an accelerated method for assessing garment appearance parameters.

RA63, Water Resistance, Absorbency and Wetting Agent Evaluation: The proposed new method, "Liquid Moisture Management Properties of Porous Materials," was submitted to TCR Ballot and received several comments and one negative. The negative has since been resolved and the revised draft will be published in the 2010 AATCC TECHNICAL MANUAL. The TCR ballot for reaffirmation of TMs 27 (Wetting Agents: Evaluation of Rewetting Agents) and 43 (Wetting Agents for Mercerization) were also approved and will be in the 2010 MANUAL. Proposed revision of TM 79 (Absorbency of Textiles) with an alternative third procedure ("quick" drop test) is undergoing a precision and bias study. The proposed vertical wicking of textiles method will undergo a precision and bias study. A proposed new test method for drying time with a heated balance will be improved and sent to the committee for review. Differences of dropping water with slow or fast drop of the pipette were discussed.

RA75, Correlation of Laboratory Tests with End Use Performance: The committee letter ballot for proposed new name and scope of RA75 received one negative and comments from another. The chair will contact the negative voter to try and resolve the negative. Norma Keyes gave an overview of the Moisture Management Supplement. James Sheets of JCPenney presented a problem they are having with yellowing of foam in padded bras and asked for direction in resolving this issue.

RA80, Printing Technology: Stephen Fraser of Spoonflower.com gave a presentation on "The Business of Digital Printing." Plans to begin on the revision of the *Pigment Printing Handbook* were discussed.

RA87, Applied Dyeing Theory and Characterization of Dyes: The recent TCR ballot for proposed reaffirmation of TM 141 (Compatibility of Basic Dyes for Acrylic Fibers) was approved and will be noted in the 2010 AATCC TECHNICAL MANUAL. RA87 noted that AATCC does not have a test method for soluble dyes (dye solubility). The chair will research ISO methods in this area. David Reese and Matt Hodges of Huntsman International talked about quality in manufacturing of dyes, and the impact on textile manufacturers. They covered QC tests used in various stages of dye manufacturing processes and the impact of dye companies' failure to conduct proper quality and process control on dyed substrates quality. RA87 has been reactivated with Bert Truesdale of Ten-Cate Protective Textiles as chair. Anyone interested in joining this committee and participating in its activities, please contact Chris Leonard, AATCC technical director.

RA88, Home Laundering Technology: Proposed new top loading washing machine parameters will be sent to committee ballot to update Table II of the "Standardization of Home Laundry Test Conditions" monograph. The committee agreed to refine and ballot standardized HE washing machine parameters based on the top selling HE machines available. A new subcommittee was formed to investigate the potential long-term use of programmable machines to mimic the performance of prevalent in-home wash conditions. The members are Elizabeth Turnbull of Intertek as chair, with Lisa Strachan of James H. Heal and Chris Leonard of AATCC participating. Robert Lattie of SDL Atlas will also be asked to participate. It is encouraged that at least one member of each research committee impacted by this be a member of the new subcommittee.

RA89, Hand Evaluation: A RA89 task group has worked by e-mail and conference calls since the November 2008 meeting to refine a proposed new test method titled "Fabric Hand of Textiles: Relative Hand Value Method." The task group recommended that the proposed draft be circulated to committee members for review while an interlab study is performed for the purpose of developing a precision and bias statement followed by the draft being submitted for committee ballot. S. Ramkumar of Texas Tech, project leader for a proposed friction test, reported that a draft of the new method would be ready this summer for the committee to review. Yi Li of the Hong Kong Polytechnic University presented, via internet, a talk on an instrument system, Fabric Touch Tester, developed to measure attributes of textile hand as they relate to psychophysical human comfort. Thanks go out to Bob Lattie of SDL Atlas for providing the internet service.

RA99, Technical Manual Editorial Review Board: RA99 was responsible for Items 29-37 of the recent TCR Letter Ballot #10109. Proposed reaffirmation of TMs 117 (Colorfastness to Heat: Dry [Excluding Pressing]), 119 (Color Change Due to Flat Abrasion [Frosting]: Screen Wire Method), 120 (Color Change Due to Flat Abrasion [Frosting]: Emery Method) and 133 (Colorfastness to heat: Hot Pressing) received an affirmation vote with comment requesting that EP1 (Gray Scale for Color Change), EP2 (Gray Scale for Staining) and/or EP7 (Instrumental Assessment of the Change in Color of a Test Specimen) be referenced in these test methods as applicable. While RA99 agreed with this recommendation, it also saw a need for a “boiler plate” type of change that should be made across the board for all the methods that use the Gray Scales for evaluation. A proposed replacement for the specific Evaluation sections will be balloted to TCR. Eventually, the test methods that require replacement of their evaluation sections will be identified. Additionally, if any test method contains a precision and bias section, a note will be added to advise the reader that the precision and bias statement was developed using the visual technique (and not the instrumental technique). The proposed reaffirmation of TM 178-2004, Barré: Visual Assessment and Grading, received a negative vote that recommended, due to a lack of usefulness, this method be balloted for withdrawal, while acknowledging that the Descriptive Terms in this method are useful to the industry. RA99 agreed with the negative voter. An article, to be included in *AATCC Review* and the *AATCC Newsletter*, will be prepared publicizing the possible withdrawal of this method while preparing a new monograph incorporating the Descriptive Terms and Terminology that are currently in this method. A recent committee ballot by RA60, Colorfastness to Washing, to add a liquid detergent option, and the use of rubber balls as an alternate to TM 61, Colorfastness to Laundering: Accelerated, resulted in RA99 noticing that while individual sections of this method have been modified or revised, the method as a whole, has not been reviewed in some time for compliance with the *AATCC Style Guide for Writing Test Methods*. This has been pointed out to RA60, along with suggested corrections to bring this method into compliance with the *Style Guide*.

RA100, Safety, Health and Environmental Technology: Samuel B. Moore of Hohenstein Institute America Inc. presented a talk on “Intentional Use of Sustainability as a Strategic Foundation for Textile Innovation.” The committee has been working on a new title and scope of RA100. The proposed title and scope was approved by those present and will be submitted to committee ballot.

RA102, Statistics Advisory: The committee met without the chair (due to travel conflict). A proposed guideline for creating a precision and bias statement was distributed to all in attendance for review. After any editorial comments are addressed, this document will be distributed to the chairs of all the research committees. Bob Cleaver stated that he had found errors in two peer reviewed papers’ statistics and asked how those were reviewed before publication. More discussion ensued and it was requested that the Publications Committee allow for some mechanism for RA102 to review statistical data for peer reviewed articles. Current project work was discussed with attendees.

RA103, Spectroscopic Technologies: Hu Yunyan of the Hong Kong Polytechnic University presented a talk, via internet, on "Evaluation of Fabric Thermal Radiation Properties." There were discussions on a new apparatus, a fabric IR tester named "Fabric Radiation Management Tester (FRMT)," to characterize IR enhancement fabrics. Several things were noted: IR emissivity (emission or reflected intensity) is used for fabric IR properties; examined a series of nano-treated finished fabrics and their IR properties; on selected fabrics, observed promising relationships between FRMT measurements and fabric comfort, scratchiness time and prickliness (thermal sensation). The chair will attempt to schedule a speaker on portable XRF analysis for the November 2009 meeting of RA103.

RA104, Garment Wet Processing Technology: Mike Cheek with Huntsman International spoke on "Gentle Power Bleach System" The presentation generated a lot of questions. The committee committed to having a speaker at each meeting and to hold a related symposium every other year. A Fashion Garment Washing Symposium Steering Committee was formed and will hold a conference call to begin planning the content and logistics for December 2009 on the west coast. Venue to be selected.

RA106, UV Protective Textiles: Proposed revision of TM 183, Transmittance or Blocking of Erythemally Weighted Ultraviolet Radiation through Fabrics, will be balloted within the next two months to add a precision and bias statement, and to add "notes" or addendum referencing ASTM labeling guide and exposure methods. The proposed test method on "stretched fabrics" was tabled as there has been no action for a number of years. The proposed *AATCC UV Protective Products Technical Supplement* was discussed. A decision was made to put out a formal notice to the committees (both AATCC and ASTM) about the progression of the technical supplement.

RA109, Flammability Technology: Michele Wallace of Cotton Incorporated gave a "Summary of NIST Barrier Workshop: History, Test Methods, Safety, Health and Environment Novel Research Issues." Ron Dombrowski has resigned as secretary. The committee needs a volunteer to fill this position.

RA110, Nonwovens Technology: A recent committee ballot to transfer RA110 to be a subcommittee of the Materials Interest Group received a negative. This negative has now been resolved and the recommendation will be submitted to TCR ballot in late August. If approved, the proposed subcommittee activities would include the following: create a web site; e-communications; and interaction with INDA, IFAI and other trade bodies as a tool to bring new members to the Association.

Time and Place of next meeting The next series of committee meetings will be held during the fall series of meetings on November 10-12, 2009 at the Radisson Hotel/AATCC Technical Center in Research Triangle Park, N. C. Check our website in September at <http://www.aatcc.org/testing/committees/index.htm> for more details.

How to Participate: For information regarding these meetings and how to take part in committee work, contact Tricia F. Day, AATCC technical assistant, P.O. Box 12215,

Research Triangle Park, N.C. 27709; tel: +1 919 549 3534; fax: +1 919 549 8933; e-mail: dayt@aatcc.org.

Respectfully submitted,

Christopher S. Leonard

TCR Secretary

Signed: _____ (Liz Eggert) _____
Elizabeth Eggert, Chair TCR

5/27/09