

**LOG OF MEETING
DIRECTORATE FOR ENGINEERING SCIENCES**

SUBJECT: Meeting with ASTM F02 Subcommittees on Child Resistant Closure Subjects

DATES OF MEETINGS: October 23-24, 2019

PLACE OF MEETING: The Marriott Marquis, Houston, TX

LOG ENTRY SOURCE: Mark Eilbert (LSM)

COMMISSION ATTENDEES: Mark Eilbert (LSM)

NON-COMMISSION ATTENDEES: Contact ASTM for attendee lists.

SUMMARY OF MEETINGS:

Subcommittee ASTM F02.25 Rigid Container Closure Systems met October 23, 2019. Lori Dixon, PhD, President of Great Lakes Marketing (GLM), gave a slide presentation entitled: *Insights into Little Hands, Teeth, and Old Ladies, Discussion of Child Resistant Package Performance*. Ms. Dixon presented findings from 16,088 children and 6,988 adults tested by GLM to the child and adult accessibility tests required in the Poison Prevention Packaging Act, 16 CFR 1700.20.

Some highlights were:

- ASTM closure types included were: Type IA (push and turn), Type II (lug finish), and Type III (snap closure).
- Type II closures were the most child resistant, followed by Type III and then Type IA (push and turn).
- Male children opened the packages more often than females for all closure types.
- The oldest test subjects (49-51 months) were more successful at openings than the other age groups (45-48 months and 42-44 months).
- Children that used their teeth in the first 5 minutes of the tests (that is, without being instructed by protocol), were more likely to open the closures for Types IA and III. There was no difference for Type II closures.
- Children were more likely to open the packages secured first by the older female test subjects in the re-securing test.

Ms. Dixon concluded from the data that age is more relevant than gender, children using their teeth is expected, and older females do not close Type IA packages sufficiently.

Subcommittee ASTM F02.50 Package Design and Development met October 24, 2019. There were no ballots and no revisions announced. A new item is planned for the next committee meeting for ASTM D3475-18 Standard Classification of Child-Resistant Packages.