- Surface preparation 90 VOTES
 - Environmental cleanliness and control, contamination
- Cure control 40 VOTES
 - Local variations in temperature and pressure, porosity
- Dimensional control (adhesive layer thickness) and Bonding Fixtures 39 VOTES
 - Dimensional control of substrates, verification of fit
 - Application of preloads, bondline thickness control, defects
- NDI/quality control 32 VOTES
 - Cured bondline evaluation, tracking outcome and bond process variables
- Scaling of processes to larger/smaller structures 26 VOTES
 - Scaling of a developed process to a larger (smaller) structure
- General (Human Factors) 25 VOTES
 - Equipment maintenance, training of personnel, documentation of process, handling/storage/disposal of materials
- Handling of the adhesive 13 VOTES
 - Storage, aging
- Dispensing adhesive 4 VOTES
 - Sequence and timing of bonding process steps, gap filling

MANY WERE UNCOMFORTABLE WITH THE CONCEPT OF RANKING

- Surface preparation 90 VOTES
 - Environmental cleanliness and control, contamination
 - TRAINING
 - Controlled environment
 - NDI does not answer everything

- Cure control 40 VOTES
 - Local variations in temperature and pressure, porosity
 - Does equipment work?
 - Scaling
- Dimensional control (adhesive layer thickness) and Bonding Fixtures 39 VOTES
 - Dimensional control of substrates, verification of fit
 - Application of preloads, bondline thickness control, defects
 - Tooling Design
 - Use Verifilm appropriately useful for gross evaluation only

- NDI/quality control 32 VOTES
 - Cured bondline evaluation, tracking outcome and bond process variables
 - Necessary but not sufficient
 - Difficulty/costs in getting standards
 - New developments such as power ultrasonics, sonic IR
 - Visual inspection is valuable, but needs standards
 - Process data not being fully utilized when gathered
- Scaling of processes to larger/smaller structures 26 VOTES
 - Scaling of a developed process to a larger structure
 - Size, complexity, and number of steps increase dramatically
 - Formal procedure of Manufacturing Risk Articles to minimize risk

- General (Human Factors) 25 VOTES
 - Equipment maintenance, training of personnel, documentation of process, handling/storage/disposal of materials
 - TRAINING
 - Even when done well, sometimes not absorbed/obeyed
 - Automation
 - Documentation of Processes
- Handling of the adhesive 13 VOTES
 - Storage, aging
 - Shipping vs Manufacturing Date/ Out-time / Requalification
- Dispensing adhesive 4 VOTES
 - Sequence and timing of bonding process steps, gap filling
 - Mixing

Summary

- Everybody knows what the big issues are, and there is even rough consensus on prioritization
 - Many were uncomfortable with the concept of ranking
 - People have techniques to cope with the current situation, but nobody is fully comfortable
- Two topics where the comfort level is lowest
 - TRAINING
 - Not done well enough consistently enough often enough
 - SURFACE PREPARATION
 - Most in need of good practical solution(s)