

Report from TP3 Conference Calls

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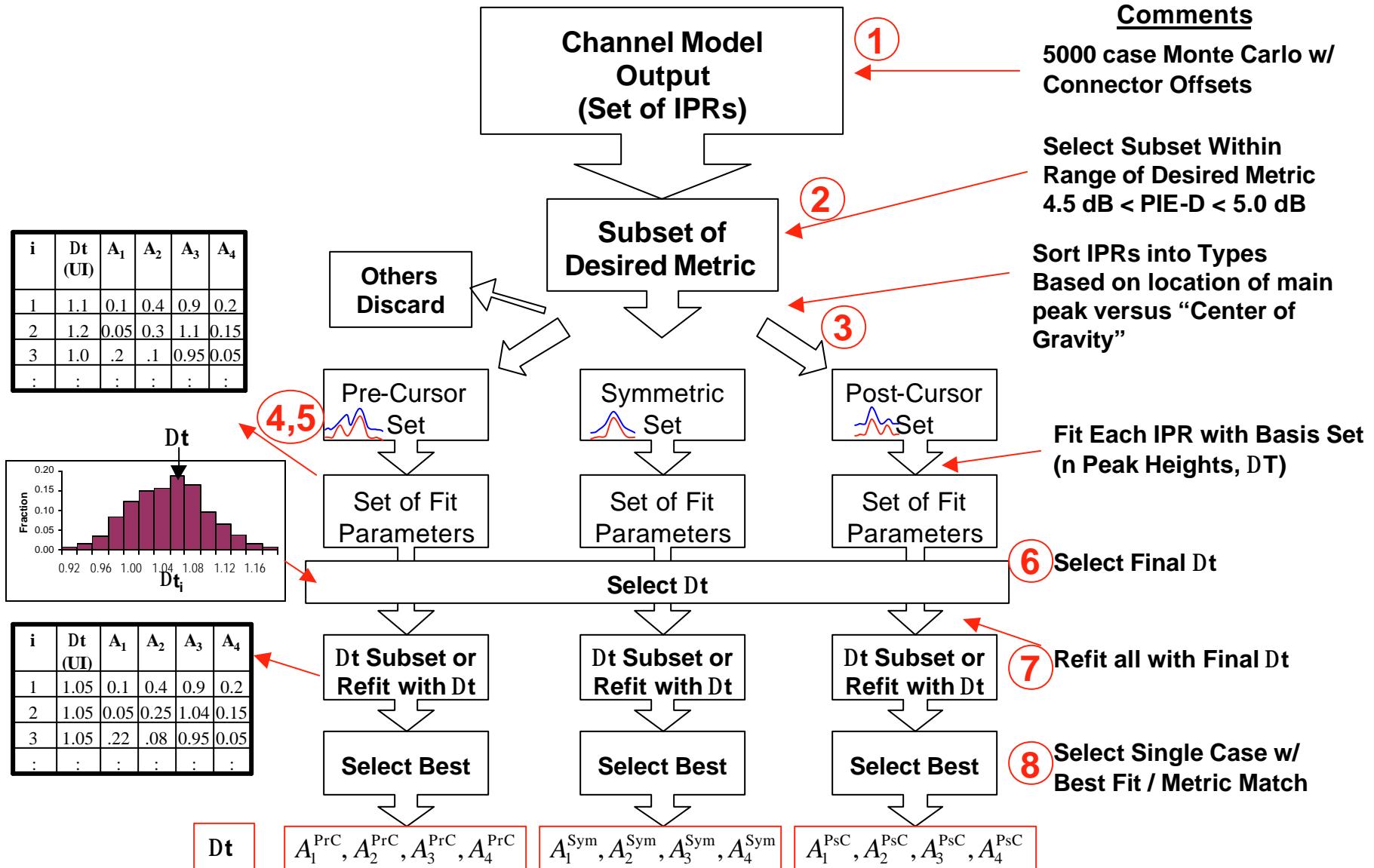
**Thank you to previous
chairman, Mike Lawton.**

Plus others...

Progress in defining TP3 test methods and parameters

- Consensus on Informative Simple receiver sensitivity and overload test.
 - Comments 70 and 122 set parameters of bandwidth limiting filter to produce 4.8 dB PIE-D impairment
- Consensus on Normative Comprehensive receiver sensitivity and overload test
 - Comment 118 sets bulk of test, comments 63 – 67 and 75 set parameters.
 - Jitter impairment removed; separate receiver jitter tolerance test proposed in comment 115.
 - Test signal specification defined as sum of four taps with equal ?T driven by NRZ transmitter through Gaussian filter. This suggests a practical hardware implementation, but other methods allowed.
 - Tap settings deduced using a “sieve” to select test cases from a large collection of fiber impulse responses.

ISI Selection Flow Chart



Key features of ISI selection

- Goal was to create a (semi)-automated process because there will certainly be last-minute debate on parameters of the “sieve”.
 - Fiber model, Fiber Bandwidth criteria
 - PIE-D range
 - Minimum/Maximum time spread of impulse response
 - Number of test cases (pre-cursor, quasi-symmetric, post-cursor)
 - Single ?t or “customized”; number of taps
 - Selection criteria (best fit to fiber pulse, best match of PIE-D, etc.)
- Presentations by Sudeep Bhoja and Petre Popescu will report further on ISI selection.