

CANDE 5-YEAR PREDICTIONS PROCESS

4 hours after dinner

Preliminary Work:

Before the Workshop:

- Leaders and scribes for each of the 4 groups are assigned
- Attendees are emailed
 - a request to think about the predictions
 - a copy of past predictions
 - a list of the 4 functional areas.

Group A: (Dierdrik Verkest) Applications, Flows, Platforms

Group B: (Hugo De Man) System Design, Test and Tools

Group C: (Dwight Hill) Logical and Physical Design

Group D: (Georges Gielen) Mother Nature (technology, MEMs, analog,
signal integrity, others)

At the Workshop:

Thursday morning:

- Past predictions are handed out – includes space to jot down ideas during the workshop.
- Copies of the process are handed out.
- People will sign up into the 4 groups during the workshop before Friday night. As they sign up, their name will be next to a number, so they will automatically be given a number within each group.

Friday night - guidelines:

- This is serious stuff. Rich Goering is interested in highlighting these for EE Times. There is also interest from IEEE Design and Test for a summary.
- Predictions should be generic and as wide reaching as possible. Predictions must address a timeframe of 3-5 years (by the time 100nm ICs come into production).
- No specific company names, information or predictions. Specific company names and products must be avoided.

Process:

Dinner

Step 1: Division into 4 groups (10 min)

Go over introduction & objectives again. Confirm the division into 4 groups of 10 each with a leader and a scribe, a pile of post-its and an easel with flip-charts.

Step 2: Prediction Brainstorming (45 min)

Each group will brainstorm proposed predictions by:

- Taking it in turns, each person will be asked for a prediction. There will be no discussion of the prediction, only questions for clarification. The group will focus on their area of expertise but can also make predictions in other areas.
- The scribe will write each prediction down (with the proposer's number) on a post-it and place it on the flip-chart.

- They will go around the group at least 5 times (ie, each person will be given an opportunity to provide 5 predictions). A person can "pass" if they want to. After the 5th time, the leader will allow anyone to give predictions.
- When no more predictions are forthcoming, the group will allow people to withdraw or modify their predictions. Similar predictions can be consolidated if all parties agree.

Step 3: Consolidation (60 min)

We will consolidate the predictions into topics (layout, synthesis, simulation, system design, verification, etc.) by going through each prediction. Similar predictions will be combined. Again, no critiques, only clarifications.

Step 4: Voting (20 min)

Each person will be given a vote sheet with the numbers 1 through 10 on it. They will be asked to vote for their top 10. Number 1 will be given 10 points, number 10 will be given 1 point. They will provide their names on the ballots.

Break – drinks

Step 5: Tallying (30 min)

Ballots will be collected and totaled. The top 10 predictions will be the ones with the largest number of points.

Step 6: Results (5 min)

The results are presented.

Step 7: Challenges (60 min)

Challenges from the floor are encouraged. A challenge has to be specific - change the order or bring one in at the expense of another. Those who voted for the prediction will be expected to explain why they supported it. The whole committee votes on the challenge.