



First US-Europe AP5 Practitioners' Workshop Agenda

19-21 March, 2002
(Ocean Life Center, Atlantic City, New Jersey)

**Focus: Real-Time (RT) Human-in-the-Loop (HITL) simulation studies:
develop best practices**

DAY 1 (Tuesday, 19th March)

8:30 – 9:30

- Welcome, introduction, objectives: *Diana Liang, FAA HQ, Ulrich Borkenhagen, Eurocontrol HQ*

9:30 – 10:30

- Review of validation strategies and methodologies
 - AP5 Operational Concept Validation Strategy document: *Karen Buondonno*
 - Overview of current methods to support validation activities: *Karen and Ulrich*
 - *A fifteen minute practitioner presentation: Nicolas Suarez*

10:30 – 10:45 *break*

10:45 – 12:00

- Role of RT HITL experimentation in the validation process: *Parimal Kopardekar (PK)*
 - Focus: When, where, and how RT HITL could/should be used

12:00 – 1:15 *Lunch*

1:15 – 1:45

- RT HITL overarching considerations introduction: *Andrew Harvey*
 - Focus: Overview of topics (Topics 1- 7)

1:45 – 3:00

- **Topic 1: Scope and Fidelity**

- *A twenty minute practitioner presentation: by Parimal Kopardekar*
- *Topic moderator: Didier Pavet*
- Discussion focus: demonstrations, part-task, and end-to-end exercises

3:00 – 3:20 *break*

3:20 – 4:30

- **Topic 2: Experiences of applying experimental design to simulation studies**

- *A twenty minute practitioner presentation: Juergen Teutsch*
- *Topic moderator: Kara Latorella*
- Discussion focus: needs, problems, solutions. For example, number/type of participants, sampling strategies, type of statistical design, etc



DAY 2 (Wednesday, 20th March)

8:00 – 9:30

- **Topic 3: Controlling variance and sources of error**

- A twenty minute practitioner presentation: Barry Kirwan
- Topic moderators: Karen & PK

Discussion focus: order and learning effects, environmental effects, data precision, scenarios -standard, and similar vs same, etc.

9:30 – 9:45 *break*

9:45 - 11:15

- **Topic 4: Generic vs. actual airspace and scenarios**

- A twenty minute practitioner presentation: Ben Willems
- Topic moderator: Patrizia Marti
- Discussion focus: benefits and limitations.

11:15 – 11:30 *break*

11:30 – 12:30

- **Topic 5: Subjective and objective data**

- Topic moderators: Robin Deransy & PK
- Discussion focus: what, when, and how to collect data, emphasis on methods

12:30 -2:00 *Lunch*

2:00 – 3:30

- **Topic 6: HITL Results: Statistical significance vs. operational significance**

- A twenty minute practitioner presentation: Alistair Jackson
- Topic moderator: Carol Manning
- Discussion focus: the meaning of results (including use/abuse), the ability to generalize results, etc.

3:30 - 5:00

- **Workshop exercise: break-out groups**

- Working on best practices and a sample case



DAY 3 (Thursday, 21st March)

8:00 – 9:45

- **Topic 7: Managing the process**

- *A twenty minute practitioner presentation: Nigel Makins*
- *Role of the Validation Data Repository (EEC): Hans Wageman*
- *Topic moderator: Sandy Lozito*
- Discussion focus: keeping the experimental work relevant and on schedule

9:45 – 10:00 *break*

10:00-10:30

- **Sample A group presentation**

10:30 – 12:00

- **Best practices results: Andy, Karen and PK**

12:00 - 1:00 *Lunch*

1:00 - 3:00

- **Best Practices paper outline: Andy, Karen and PK**
- **Plans for the next workshop & wrap up : All**