# Report of the ILSC meeting

## May 26, 1998

ILSC meeting report

# Issues addressed (1)

- **Logistics for subjective tests**
  - What are the tasks that **MUST** be carried out by ILs?
  - Identification of volunteers for those tasks
  - Schedule

- **Technical aspects**
  - Statistical analysis
  - Viewing distance ?
  - Calibration ??

# Issues addressed (2)

- **Selection of sequences**
  - Criteria
  - Further selection of encoded material?
  - Selection

- **A.O.B**
  - Non-disclosure agreement will be signed by ILs

# Logistics
## What are the tasks that MUST be done by ILs?

- Encoding
- Creation of test tape for objective test
- Error simulation
- Subjective test
- Statistical analysis
- Objective test
- Analysis of Correlation between subjective & objective evaluations

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# Logistics
## What are the tasks that can be done by proponents?

- Collecting, copying and sending source sequences to calibration site
- Calibration
- Copying and sending the pre-processed material to the coding sites
- Collecting the processed sequences
- Editing, copying and sending to subjective test sites

# Logistics
# Identification of volunteers (1)

| Lab | Encoding | Test tape objective test | Error simulation | Subjective test | Statistical analysis | Objective test | Correlation |
|---|---|---|---|---|---|---|---|
| Teracom | ? | | | ☺ | | | |
| ATT | | | ☺ | | | ☺ (SGI) | |
| ATTC | | | | ☺ | | | |
| FUB | | ☺ (2 Gbyte exabyte) | | ☺ | | ☺ (SUN) | |
| Berkom | ? | | | | | | |
| DoCatA | ? | | | ☺ | | | |
| CRC | | | | ☺ | ☺ | | |
| CSELT | | | | ☺ | ☺ | ☺ (SUN) | |
| RAI | ☺ MPEG-2 MP-ML PAL conversion | | | ☺ | (back up) | | |
| CCETT | | | | ☺ | ☺ | | |
| NIST | | | | | ☺ | ☺ (SGI) | |
| IRT | ☺ MPEG-2 MP-ML PAL conversion | | | | | ☺ (PC) | ☺ ? |

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# Open issues

- Encoding at 525 (GI, SMPTE, Scientific Atlanta, Comsat?)
-  H.263 encoding (Picturetel?)
- Third 625-lines encoder (Berkom, Teracom, DoCatA?)
- Conversion into NTSC
- Betacam, Betacam SP,VHS
- MPEG-2 4:2:2 at 525 (if Massimo's proposal is accepted)
- Analysis of correlation between subjective and objective data

# Logistics
# Identification of volunteers (2)

| Lab | Collecting source sequences, copying and sending to calibration site | Calibration | Copying and sending pre-processed material to the coding sites | Collecting the processed sequences | Editing, copying and sending to subjective test sites |
|---|---|---|---|---|---|
| Tektronix, Editing site TBD | ☺? | ☺ | | | |
| | | | | | |
| | | | | | |
| | | | | | |

# Schedule

| What | When | Who | Comments |
|---|---|---|---|
| Sending source material to editing sites | 29 July | | |
| Preparation of test design (randomisations, stabilisation, training) | 7 August | | |
| Copying the source material and sending to pre-processing sites | 7 August | | |
| Calibration & sending to coding sites | 21 August | | |
| Coding & sending to editing site(s) | 11 September | | |
| Copying Editing coded material and send to objective test sites | 25 September | | (on exabyte, Abekas, CD-ROM?) |
| Copying Editing coded material and sending to subjective test sites | 2 October | | |
| Subjective Test | 30 October | | |
| Objective Test | 30 October | | |
| Statistical analysis of subjective test | 20 November | | |
| Correlation between objective and subjective | 11 December | | |
| Discussion of results | 18 December | | |
| Writing the report | 22 January | | |

# Technical aspects
## (Statistical analysis)

- Beta-test
- Mean
- STD
- CI
- Screening of subjects
- NSSD (t-test)
- correlation  among test sites
- anova to check the significance of test site

# Other technical aspects

- Viewing distance: 4 H is needed
- Calibration: is it really needed?

# Selection of sequences

- ## Criteria
  - colour
  - luminance
  - still pictures
  - film
  - motion energy & spatial details
  - source format
  - general (masking/facilitating, cultural/gender neutral, range of quality)

- ## Further selection based on encoded material ?

# Selection of sequences

- 10 sequences at 50 Hz
- 10 sequences at 60 Hz

# Comments

- **film**
  - different behaviour at 50 and 60 Hz
  - they are not critical, one or two are enough
- **still pictures**
  - no still pictures are available for 60 Hz

# Did I forget anything important ?

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