

Gunn Diode Oscillator Minutes

David Headland

2004-06-01 09:00

Attendance

- Fourth year students:
 - JM Higginbotham.
 - R Wan.
 - DP Headland.
 - MP Gaskill.
 - AJ Nelms.
 - RE Irwin.

Approvals

- The minutes from the last meeting were approved.

Managers' meeting

- The minutes from the managers' meeting were distributed.
- Events and changes were discussed.

Project demonstration

- We may want to take e2v staff for a meal after the demonstration.
- At least two people must be present at all times.
- We *must* be ready for 9:30 to avoid being penalised.
- The room will be open by 8:00 for preparations.
- Films of the testing could be shown in the informal demonstration in the morning to avoid changing settings.
- A list of parts was distributed and discussed.
- It may be useful to split the talking and practical demonstration between people for certain elements, although this will require some planning and choreography.

Self appraisal

- The self appraisal must be completed.
- This week is not a good time because of the epilogue deadline.
- It could be completed after the meal with e2v next Thursday.

Epilogue

- The epilogue structure draft was distributed and discussed.
- Tasks for the epilogue body were assigned as follows

Acknowledgements: MP Gaskill.

Executive summary: RE Irwin.

Introduction: RE Irwin.

Simulation: JM Higginbotham.

Power supply: R Wan, AJ Nelms.

Testing: AJ Nelms, DP Headland.

Conclusions: DP Headland, AJ Nelms.

Future work: All, if required.

- Deadline for submissions is 12:00 noon, Friday 4 July 2004.
- Early submissions are welcomed.

Power supply

- Stripboard layouts have been designed and built.
- They incorporate voltage regulators and current limiters.
- Testing will take place this morning.
- Mounting will take place early this afternoon.
- After mounting the PSU should be usable.
- Inputs can be taken from potentiometers or R Wan's references.
- Voltage monitoring would be very useful.
- Suggest using three panel mounted DVMs for measurements.
- DVMs will not be required for testing.

Simulation

- Simulation is due to be finished today.
- The epilogue section will be written afterwards.
- The Maltese cross can't be used, which is disappointing.
- Help will be sought from WS Truscott.

Poster

- The poster design is almost finished.
- References need to be added.
- Some pictures need to be selected by JM Higginbotham.

Testing

- Testing plans have been discussed.
- Power supply and multiple device oscillator testing will start this afternoon.
- This should be video recorded.
- Next week, if time permits, a video recording of testing the single device oscillator should be taken.

Proposed actions

RE Irwin	Laminate the technical drawings for the display.
DP Headland	Place the managers' meeting minutes into LyX.
RE Irwin	Mail the managers' meeting minutes to DP Headland.
DP Headland	Re-print all minutes and agendas for binding.
RE Irwin	Mail WS Truscott to finalise the mail with e2v.
MP Gaskill	Re-send the documents related to the demonstration.
RE Irwin	Formally invite e2v staff to the demonstration.
JM Higginbotham	Provide simulation pictures to RE Irwin.

Next meeting

Time Thursday 3 June 2004, 09:00.

Place D2c coffee room.

Meeting adjourned, 10:08.