

**Meeting Purpose** (*clearly state objectives of the meeting*): Review System-level designs pertaining of the drive circuitry behind the LED and Photodiode devices for the Oxygen Gas Sensor.

**Materials Reviewed** (*list all documents reviewed at the meeting including revision*):

Concept Diagram/Selection  
Simulation  
Chamber Construction

**Attendees** (*name and discipline / role of all participants*):

Samuel Shin (EE)  
Jeremy Goodman (uE)  
Jay Radhakrishnan (EE)  
Professor George Slack (EE)  
Professor David Borkholder (EE)

**Recorded by** (*name and role of person recording meeting notes*):

\_\_\_\_\_ (*signature of person recording meeting notes*)

**Meeting Date:** February 11, 2009

**Previous Open Action Items Reviewed** (*indicate if any action items (by number) were reviewed and closed from prior reviews or meetings*):

**Discussion** (*describe any relevant discussions not captured in actions / issues / decisions tables*):

Action Items					
Item #	Description	Responsible	Due Date	Close Date	Comments
A001	Basic Calculations for required Gas and chamber needed.	JVG	02/18/09		
A002	Look into noise and input bias current considerations regarding photodiode circuit	SHS, JVG	02/21/09		
A003	Look into prototype boards with ground plane for direct soldering of parts at Digikey/ Vectoboards?	SHS	02/18/09		
A004	Include simulation diagrams of PD circuit after band pass filters are applied	SHS	02/18/09		
A005	Test out photodiode circuit for current output	SHS, JVG	02/18/09		

<b>Issues</b>					
<b>Item #</b>	<b>Description</b>	<b>Responsible</b>	<b>Open Date</b>	<b>Close Date</b>	<b>Comments</b>
I001	Need BOM	SHS, JVG	02/13/09		
I002	Determine exchange time in gas, and how much of each gas is actually needed?	JVG	02/13/09		
I003	Look into input impedance and input bias current consideration of amplifier device in photodiode circuit	SHS	02/13/09		
I004	Connection issues might be coming from board.	SHS	02/13/09		
I005	Need filter implementation in the actual circuit simulation to contain required frequencies	SHS	02/13/09		