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Type: **Oral Presentation**

## Aspects of DC circuits: a fine grained investigation of student conceptions

*Thursday, 14 July 2011 08:30 (15 minutes)*

This is the second part of our study, where we are analysing the reasons and explanations behind each answer of each student. In the first part of our study (2010) using an open circuit (battery, single wire, resistive element) in which the resistive element (resistor, heating element, light bulb) and the words ("current", "charge flow") are inter-changed in an electrically equivalent circuit and the students answers were found to be influenced by the different elements and words.

**Level (Hons, MSc, <br> &nbsp; PhD, other)?**

Research

**Consider for a student <br> &nbsp; award (Yes / No)?**

No

**Would you like to <br> submit a short paper <br> for the Conference <br> Proceedings (Yes / No)?**

Yes

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**Session Classification:** Education

**Track Classification:** Track E - Physics Education