An Edinburgh Speech Production Facility

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### 3 The Dialogue Corpus

So far, we have recorded 9 dual participant sessions primarily between Scottish and Southern British English speaking participants. Each session involves synchronized recordings of both EMA and acoustic data, and includes 30-60 minutes of speech. The corpus will be available in Sept. 2010 via a web-based, searchable archive system.

#### 3.1 Sensor Positions

Sensors were attached behind the ears, to the bridge of the nose, to the upper jaw, lower jaw, upper lip, lower lip, tongue front, tongue mid and tongue back.

#### 3.2 Data Accuracy

Sensors suggest that accuracy is within 1 mm (see unscented Kalman filtering-based algorithms, described in Hoole & Zierdt (in press) (TAPAD) and Position-estimation procedures include those other time series data (EPG).

#### 3.3 Annotation

Annotation files include orthographic transcription and long pauses. Disfluency annotation is in preparation, and we are developing a guide for prosodic labeling (simplified ToBI).

### 4.4 Data Preview

#### Figure 7.

From a ‘Spot the difference’ dialogue. Although the speaker could hold his tongue dorsum in position for /k/ in ‘kind’ following the velar coda in ‘connecting’, tongue dorsum movement traces suggest his tongue dorsum has moved downward during the hesitation pause. Lip movement traces suggest he has closed his mouth and opened it again during this interval.

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Poster describing the facility.