Summary
In 1999 I published two articles with Anna Barney and Peter Davies on a
dynamic mechanical model of the vocal folds and tract. In this talk I will
summarize those studies, discussing in particular modelling strategies such as
the use of driven shutters to imitate the vocal folds. It was shown that some
sound is generated well downstream of the shutters; how significant is this
finding likely to be for human vocal tracts? The implications for use of the
Rothenberg mask in speech studies will also be covered. Some more recent
work with an improved model, and the relation of these studies to other
aeroacoustic modelling studies, will be discussed.

Relevant Publications:
A. Barney, C.H. Shadle and P.O.A.L. Davies, Fluid flow in a dynamic mechanical
model of the vocal folds and tract. I. Measurements and theory.

C.H. Shadle, A. Barney and P.O.A.L. Davies, Fluid flow in a dynamic mechanical
model of the vocal folds and tract. II. Implications for speech