

14/10/80

Mr. Jack Templin, Head  
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Dear Mr. Templin:

Last month I had an exchange of correspondence with Larkin Kerwin. He suggested I contact you. I've failed to locate a suitable wind tunnel in Australia. Perhaps something appropriate is available at your institution.

The experiments will consist of making simple models of NACA symmetrical sections having low aspect ratio. These are to be tested in vertical position at Reynolds numbers in range  $1.7$  to  $5.1 \times 10^6$ , if possible. The models should obstruct not more than 10% of tunnel throat area.

Data will probably be produced in form of three pairs of forces and moments. These would be vertical and horizontal across tunnel; and along tunnel. Mounting of model is to be arranged to give horizontal yaw angles up to  $\pm 90^\circ$ . Above six components are then to be converted from tunnel coordinates to model coordinates. I'll carry data reduction from there.

Please send some literature describing your installation; particularly throat dimensions and wind speeds available. I'd prefer to have you make models to my drawings; than send models from here. Payment for services will be from my account at National Trust in Toronto.

Your consideration, comments and suggestions will be appreciated.

Very truly yours,

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