



## PEDAL CYCLE SPEED AND HELMET ERGONOMICS STUDY

### Information for Participants

You are invited to take part in a research study on Sydney pedal cyclists. In particular, we (the investigators) hope to learn the typical riding speeds of cyclists of various ages and abilities. Additionally, we hope to gather information on whether current helmet designs are able to fit and remain secure on the heads of the rider population.

This study is being conducted by the UNSW School of Risk and Safety Sciences as part of a linkage project funded by the Australian Research Council (ARC) in partnership with the NSW Roads and Traffic Authority (RTA), the Transport Accident Commission (TAC Victoria), the NRMA and NRMA – ACT Road Safety Trust, the Australian Transport Safety Bureau (ATSB), and DVExperts International, and with support from Bicycle NSW.

If you decide to participate, you will be interviewed by a member of the research team to obtain details regarding your riding experience and your helmet use. We will take some basic anthropometric measurements, i.e. your weight, height and head dimensions and have a look at your helmet and bike. We will then get you to wear your helmet and take some measurements of the forces required to rotate your helmet forward, rearward and sideways (where possible). A member of the research team will then instruct you on the speed measurement procedure. In general, two procedures may be used to measure your riding speed: 1) you will be asked to ride along a predetermined path or course along which your speed will be measured between certain points using timing apparatus; or, 2) a small GPS device will be mounted to your bicycle frame for the purposes of logging your riding speed with respect to the road characteristics as you ride your chosen course. You will be asked to estimate your riding speed at certain locations along your course. For the purposes of obtaining your riding posture and height, you may be photographed whilst on your bike.

The forces applied during the helmet measurements will be the minimum required to displace your helmet. We do not anticipate that you will experience any discomfort due to your participation in this research, nor do we foresee any abnormal risks related to your involvement in the study. The interview will take approximately 20 minutes (exclusive of the speed measurements) and will be done in person.

For your participation, you will receive a Coles Group and Myer gift voucher to the value of \$15, redeemable at participating retail outlets. We do not anticipate that you will bear any additional costs because of your participation in the study. While we intend that this research may improve helmet performance in the future, we cannot and do not guarantee or promise that you will receive any direct benefits from this study.

Any information that is obtained in connection with this study and that can be identified with you will remain strictly confidential and will be disclosed only with your permission or except as required by law. If you give us your permission by signing this document, we plan to discuss the results with Australian and international road safety authorities and Standards Australia, and publish results in relevant scientific conferences and journals. In any publication, information will be provided in such a way that you cannot be identified.

Feedback regarding the study's findings may be made available through the School of Risk and Safety Sciences' website at [www.srss.unsw.edu.au](http://www.srss.unsw.edu.au), road safety publications, pedal cycle association newsletters and magazines.

Your decision whether or not to participate will not prejudice your future relations with The University of New South Wales. If you decide to participate, you are free to withdraw your consent and to discontinue participation at any time without prejudice.

If you have any questions, please feel free to ask us. If you have any additional questions later, Associate Professor Andrew McIntosh, (ph 02 9385 5348) will be happy to answer them.

**Ethics Approval**

Complaints may be directed to the Ethics Secretariat, The University of New South Wales, SYDNEY 2052 AUSTRALIA (phone 9385 4234, fax 9385 6648, email [ethics.sec@unsw.edu.au](mailto:ethics.sec@unsw.edu.au)).

You will be given a copy of this form to keep.

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**PARTICIPANT CONSENT FORM**

I,

.....  
*[Please PRINT full name]*

of,

.....  
*[Residential address]*

have read and understood the Information for Participants on the abovenamed research study and have discussed the study with ..... *[Investigator]*

I have been made aware of the procedures involved in the study, including any known or expected inconvenience, risk, discomfort or potential side effect and of their implications as far as they are currently known by the researchers.

I freely choose to participate in this study and understand that I can withdraw at any time.

I also understand that the research study is strictly confidential.

I hereby agree to participate in this research study.

.....  
Signature of Participant

.....  
Date

.....  
Signature of Witness

.....  
Name of Witness

.....  
Signature(s) of Investigator(s)

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## REVOCAION OF CONSENT

I hereby wish to **WITHDRAW** my consent to participate in the research proposal described above and understand that such withdrawal **WILL NOT** jeopardise any treatment or my relationship with The University of New South Wales.

.....  
Signature of Participant

.....  
Full name of Participant

.....  
Date

The section for Revocation of Consent should be forwarded to A/Professor Andrew McIntosh, School of Risk and Safety Sciences, University of New South Wales, Sydney NSW 2052.