



MASSEY UNIVERSITY

Mapping the different understandings of the nature of science for disaster risk

Information Sheet

Hello, my name is **Dr. Emma Hudson-Doyle**, and I am a senior lecturer working at the **Joint Centre for Disaster Research** at Massey University, Wellington. Thank you for responding to our recent advertisement looking for people to participate in interviews that will explore the ways people conceptualise science and the scientific process.

Please take the time to read the information below carefully, and consider whether you would be willing to take part in this interview.

What is the research, and who are the researchers?

We are seeking to understand the most effective methods to map the diverse ways the public, scientists, emergency managers and other diverse stakeholders conceptualise the science used to inform disaster risk management and the related scientific processes and uncertainties. Findings will inform future research that will develop an instrument to measure and identify an individual's 'mental model of uncertainty' in natural hazard science. Findings from this research programme will inform more effective framing of science advice during disasters and crises.

I am the Lead Investigator, and Dr Stephen Hill, Dr Matt Williams (both Massey University), and Prof Douglas Paton (Charles Darwin University, Australia) are Associate Investigators. Additional project advisors include Dr Julia Becker (Massey University) and Prof. Ann Bostrom (U. Washington, USA).

Who can take part in this research?

We are seeking a range of participants including members of the public, scientists, academics, emergency managers and the diverse stakeholders involved in the management of hazard events. You must be 18 years or over to participate.

What will the interviews involve?

You will have responded to an advertisement either for an individual or group interview.

- If you are participating in an individual interview, this will be conducted either online or, if located in Wellington, in person at a location that is convenient to you (e.g., either at Massey University, your workplace, or a public library or café). This interview will last between 60 to 90 minutes and will include responding to some questions about your perspectives on science in general, and the science of natural hazards (e.g., earthquakes, weather, volcanoes). In addition you will participate in 'mapping' activities to sort ideas. Online interviews will be conducted via the platform Zoom and an online whiteboard, such as Mural.
- If you are participating in a group interview, you will join up to 5 other participants either in a virtual meeting (via Zoom & Mural), or if located in Wellington: at a room in Massey University or equivalent location. Group interviews will last up to 2 hours, and discussions will also involve responding to questions exploring your perspectives of science, and associated 'mapping' activities.



During both individual and group interviews I or a research assistant will take notes. In addition, video recordings will occur for Zoom interviews, and audio recordings for in person interviews. Photographs of the idea sorting and mapping products will also be collected. These photos and recordings will allow a more thorough understanding after the interview.

Light refreshments will be provided during in-person interviews. As a thank you, all participants will receive a supermarket voucher valued at \$40, sent to participants after the interview.

What are my rights as a participant?

Whilst your contribution would be most appreciated, **you are under no obligation to participate in this research.** Following the Massey University Code of Ethical Conduct, if you choose to participate:

- your identity will be anonymous in the published results
- you may decline to answer any questions
- you may withdraw from the study at any time
- you may ask any questions about the study
- you can be given access to a summary of the project findings when it is concluded.

All information and data provided will be anonymous and will be stored in a secure location at either the Joint Centre for Disaster Research (School of Psychology, Massey University, Wellington, NZ), or via a password protected encrypted online data storage facility (Dropbox). All data will be held in this secure location for five years post research completion, and stored by methods that comply with the Massey University Code of Ethical Conduct. The only persons with access to this data will be the current research team. No individuals or organisations will be named in any reports or publications.

What happens to the research findings?

The findings will be used to develop the effectiveness of the science advice communicated during emergencies and disasters. These findings will be communicated to the national and international science research community and emergency management sector via presentations at various conferences in the next few years. In addition, the data may be used for publications in journals and magazines.

If you have any questions, please feel free to contact:

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This project has been evaluated by peer review and judged to be low risk. Consequently, it has not been reviewed by one of the University's Human Ethics Committees. The researcher(s) named in this document are responsible for the ethical conduct of this research.

If you have any concerns about the conduct of this research that you want to raise with someone other than the researcher(s), please contact Professor Craig Johnson, Director - Ethics, telephone 06 3569099 ext 85271, email humanethics@massey.ac.nz.