BURGMAN, MARK, PROFESSOR

PROPOSED ROLE:	Research Leader
CURRENT POSITION:	Professor, Environmental Science, University of Melbourne Director, The Australian Centre for Risk Analysis

Examples of direct impact of recent research

- Adoption of risk assessment framework by Irrigation Industry
- Creation of ACERA
- Adoption of uncertainty analysis for risk ranking by IUCN

Examples of advice to government and industry

- The WA Rock Lobster Industry revision, for the WA Fishing Industry Council
- Ongoing linkage grant for risk assessments of Australian marine parks, Parks Victoria
- Ongoing linkage research on effects of global warming on alpine plants (DSE, Greenhouse Office)

Most significant recent publication

Paper on the predictive accuracy of PVA (Brook et al. 2000) listed by the journal *Nature* as a "Highly Cited Article" (80 since 2000), putting it in the top 1% in its field. March, 2005.

Research Training	Current	Past
Postdoc	5	19
PhD	16	18
Honours	0	46

Publication summary 2001 to present

Number of books:	5 sole-authored
Number of peer-reviewed papers:	34
Number of book chapters:	13
Other publications:	30

Major awards and prizes

1999 Whitley Award. The best conservation biology text, awarded to M. A. Burgman and D. L. Lindenmayer. *Conservation biology for the Australian environment*. Awarded by the Royal Zoological Society.

Other recent evidence of impact and standing

- Research Working Group Project Leader and Sabbatical Fellow. The US National Center for Ecological Analysis and Synthesis, 1999-2002 and 2002-2003.
- Research Fellowship, IZEA, Universite de Lausanne. 1988-89.
- First in Class, Graduate Comprehensive Exams, Department of Ecology and Evolution, State University of New York. 1986.
- International Student Scholarship, Department of Ecology, State University of New York. 1985-87.

Invited seminars

- Department of Mathematics and Statistics, Centre for Complex Systems (MASCOS), University of Melbourne. April 22nd, 2005. Non-probabilistic uncertainty in natural resource management.
- World Conference on Natural Resource Modelling, Melbourne, December 13th, 2004. Robust decisions for species conservation: satisficing under uncertainty (keynote address)
- Environment Institute of Australia and New Zealand, Melbourne. August 3rd, 2004. Uncertainty in expert judgements in ecological risk assessments.
- Sedeh Boker Desert Research Station, Sedeh Boker, Israel. Wednesday, June 23, 2004. Dealing with uncertainty and making better decisions for Orange-bellied Parrots and Sumatran rhinos.
- Department of Agricultural Engineering, Technion, Haifa, Israel. October 23rd, 2004. Information-gap decision theory: applications in conservation biology.
- International Symposium, Sustainable use and conservation of biological diversity, House of World Cultures / Berlin. December 2nd 2003. Population viability analyses and robust decisions
- Royal Zoological Society of NSW Forum, Taronga Park, Sydney. October 25, 2003.Threatened species legislation: is it just an Act? Results of the extinction risk working group (key note speaker).
- University of Wisconsin, Madison, Department of Zoology Colloquium, March 28, 2003. Uncertainty in habitat models: epistemic and vague quantities.
- San Diego State University, 2003. GM regulation and scientific inference: can science be trusted?
- Canadian National Critical Habitat Working Group, Canadian Wildlife Service, Workshop. Ottawa, Ontario, December 9-11, 2002. Practical applications: critical habitat on the ground.