

Honorable John C. Coughenour

UNITED STATES DISTRICT COURT  
WESTERN DISTRICT OF WASHINGTON  
AT SEATTLE

WASHINGTON STATE REPUBLICAN  
PARTY, et al.,

Plaintiffs,

WASHINGTON DEMOCRATIC  
CENTRAL COMMITTEE, et al.,

Plaintiff Intervenors,

LIBERTARIAN PARTY OF  
WASHINGTON STATE, et al.,

Plaintiff Intervenors,

v.

STATE OF WASHINGTON, et al.,

Defendant Intervenors,

WASHINGTON STATE GRANGE,

Defendant Intervenors.

NO. CV05-0927-JCC

DECLARATION OF JOHN M. ORBELL IN  
SUPPORT OF PLAINTIFFS' MOTION FOR  
PARTIAL SUMMARY JUDGMENT

I, John M. Orbell, hereby declare under penalty of perjury as follows:

DECLARATION OF JOHN M. ORBELL - 1

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1           1.       I am over the age of eighteen years, and make this declaration of my own  
2 knowledge, except where indicated to the contrary.

3           2.       I am Professor Emeritus of Political of Science at the University of Oregon. I  
4 have been a professor at the University of Oregon since 1967. A copy of my *Curriculum Vitae* is  
5 attached as **Exhibit 1**. Since 1988, I have been associated with the University's Institute of  
6 Cognitive and Decision Sciences, serving as its Director from 1998 through 2001. As Director,  
7 I was responsible for restructuring of the Institute as well as for its day to day operations. An  
8 important role of the Director is to encourage and support research projects undertaken by  
9 members. The Institute of Cognitive and Decision Sciences is a multi-disciplinary group of  
10 faculty (and student associates), drawing members from Political Science, English, Sociology,  
11 Psychology, Linguistics, Philosophy and Anthropology (and some other disciplines) to conduct  
12 social research, hopefully of a collaborative and interdisciplinary nature. The Institute's goal is  
13 to advance empirical and theoretical understanding of cognition, decision-making, culture and  
14 communications by drawing on the perspective of multiple disciplines. Social science  
15 experimentation is a regular activity of many institute members.

17           3.       Since the middle 1970s, I have conducted a succession of laboratory experiments  
18 on human behavior and cognitive processes with a number of collaborators (including  
19 psychologist Robyn Dawes of Carnegie Mellon University with whom I worked between 1975  
20 and 1993). Papers from these projects have been published in leading journals in several  
21 disciplines—including in the Political Science profession's leading journal, *The American*  
22 *Political Science Review* (6 experimental papers) as well as in Psychology's the *Journal of*  
23 *Personality and Social Psychology*, Sociology's *American Sociological Review* and Philosophy's

1 *Ethics*. Of approximately 60 articles on my vita, 30 are of a laboratory/experimental nature. My  
2 collaborations have all been equal-contribution interactions, with my collaborators and I either  
3 rotating authorship or simply using alphabetical sequencing—making me reluctant to claim  
4 “principal authorship” on any.

5       4. Beyond two National Science Foundation grants supporting computer  
6 simulations, these laboratory experiments have been funded by a succession of eleven grants  
7 from the National Science Foundation—the most recent experimental project (with political  
8 scientist Mikhail Myagkov) having been completed about six months ago. Earlier in my career I  
9 also conducted a number of research projects involving survey research, most notably in the late  
10 ‘sixties and early ‘seventies; papers from two of these projects were published in *The American*  
11 *Political Science Review*, as well as elsewhere; my graduate training at the University of North  
12 Carolina and at summer programs at the University of Michigan concerned exclusively such  
13 work. As part of my scholarly obligations, I have reviewed both survey and experimental work  
14 (as well as computer simulations) for all the leading journals in Political Science as well as in  
15 Psychology and Sociology having served on the Editorial Board of *The American Political*  
16 *Science Review*.

17  
18       5. I have reviewed the report prepared by Professor Manweller. The version of the  
19 report I reviewed was identified as having been presented to the Annual meeting of the Western  
20 Political Science Association on April 1<sup>st</sup>, 2010. I also reviewed copies of Professor Donovan’s  
21 two reports, consisting of 16 and 49 pages, respectively. These reports were provided to me by  
22 John J. White, Jr., counsel for the Republican Party in this action.  
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1           6.       Much of Professor Donovan's critique revolves around what appears to me a  
2       misunderstanding of the role of representativeness in the design and conduct of social  
3       experiments as opposed to the design and conduct of social surveys—the latter appearing from  
4       his vita to be an methodology that he employs in his own work. (I point out that survey methods  
5       have a far longer history in Political Science than experimental methods, with the latter having  
6       started to appear in the leading journals not much before the 1975. This is not the case in  
7       Psychology, where experiments are a much preferred methodology.)

8           7.       When conducting survey research with the object of generalizing one's findings  
9       to some particular population, it is obvious that randomness—and the assumption of  
10      representativeness that it can support—matters. Thus, for example, many electoral surveys are  
11      concerned with identifying the reasons why people vote the way they do, and the personal  
12      attributes of people who vote one way or another. Since some version of survey research is  
13      probably still the dominant tool employed by empirical researchers in Political Science, and  
14      since many empirical researchers in the discipline remain uninformed about experimental design,  
15      it is not surprising that 'representativeness' can be a concern for political scientists when they are  
16      evaluating empirical work beyond standard survey research.

17           8.       The role of representativeness is, however, fundamentally different in  
18      experimental design. Standard experimental design seeks to identify the consequences of some  
19      experimental intervention (as for example, variously designed election ballots) by exposing  
20      different populations that, while not necessarily representative of any specific more general  
21      population, are defensible as being similar in all attributes relevant to their response to the  
22      experimental intervention, requiring therefore *random assignment to experimental conditions*. It  
23      24      25

1 follows that any difference observed in the response of such randomly assigned experimental  
2 subjects to an experimental stimulus (again, election ballots) can be defended as 'statistically  
3 significant' or '*not* statistically significant' depending on standard tests for such things (e.g.  
4 ANOVA, chi square, etc).

5       9. In short, therefore: Representativeness is certainly important in survey work  
6 insofar as a researcher is concerned to generalize from his or her sample to some *particular*  
7 *wider population* or to the pattern of opinions or behaviors within that population. But it is  
8 important in experimental research insofar as a researcher is concerned to identify the  
9 consequences of exposing *people in general* to diverse experimental stimuli. In the present case,  
10 if there were any reason to suppose that the population of the State of Washington was likely to  
11 respond differently to ballot design than people in general—that, for example, Washingtonians  
12 were more or less easily confused—then there *might* be a reason for concern about  
13 representativeness of the subject pool. Since there is no reason to believe this is so, the argument  
14 about representativeness that concerns Donovan is moot. And, since it is clear that Manweller  
15 did assign his subjects to ballot type randomly, any concern about their reflecting the parameters  
16 of Washington's population is, from an experimental perspective which is at issue here, simply  
17 misplaced.  
18

19       10. The only possible qualification one might claim here is that subjects from a  
20 particular pool *might respond to an experimental stimulus differently* from subjects drawn from  
21 some other pool. Imaginably, for example, subjects randomly assigned to experimental  
22 conditions might respond differently to the experimental stimuli than subjects from a different  
23 pool. But notice that arguing in this way requires a sophisticated theoretical reason for  
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1 supposing that would be the case—beyond that it is simply *imaginable* that could be so—and  
2 none is given here. In fact, I know of no criticism of any experimental study that has plausibly  
3 argued in such terms. That said, as I will develop below, Manweller’s design *did* in fact involve  
4 replication across three different subject pools—pools that precisely address Donovan’s concern  
5 about voter information about politics.

6       11. In the course of my experimental research in political science, I have never  
7 attempted to obtain a random (viz: representative) sample of a particular subject population, nor  
8 have any critics raised that issue with respect to my work or that of my collaborators. In fact, I  
9 know of no experimental work in any discipline (or, indeed, in Psychology which is a  
10 quintessentially experimental and laboratory discipline) that has attempted to ensure, via  
11 representative sampling, that its population is ‘representative’ of any particular population—such  
12 as, for example, the voting population in the State of Washington. To be as confident as possible  
13 that I have not missed any such instances, I have inquired widely among other experts, including  
14 one who is an unusually distinguished scientist with an extensive record of experimental studies  
15 and having received remarkable recent recognition, and have been confirmed in that impression.

17       12. Professor Donovan makes the following sweeping statement: “Scientific research  
18 - particularly research on social and behavioral phenomena - require [sic] that the researcher collect  
19 data from samples of a target population that are broadly representative of the target population.  
20 Without representative samples, scholars cannot make inferences about a larger population from their  
21 observations. The essential requirement of any sample is that it is representative of the population  
22 from which it is drawn.” To repeat an earlier point, Donovan appears to be equating survey research  
23 with *all* modes of scientific or empirical research. *The logic of representativeness* in experimental  
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1 research is *not* to describe the attributes of some target population but to identify the behavioral (or  
2 attitudinal, etc) consequences of some experimental intervention *in general* by exposing similar  
3 populations to the various experimental interventions. Thus, positive results from an appropriately  
4 conducted experiment, if they are to bear on the natural world, must be complemented by an  
5 argument that the effect observed in the laboratory would also be observed in the natural world—viz,  
6 that humans in a laboratory situation confronting a given experimental intervention would respond in  
7 essentially the same way in natural world circumstances. It is here, and only here, that Donovan's  
8 laborious documentation of the generally low levels of voter knowledge might, imaginably, be  
9 relevant.

10 13. But that low level of voter knowledge and understanding of politics is not a relevant  
11 criticism of Manweller's design. Acknowledging that voters differ in their levels of information  
12 (thus likely confusion), Manweller took care to differentiate three subject populations in terms of  
13 such information about politics ('new voters,' 'registered voters,' and 'active voters') and exposed  
14 subsets of each of these respective subject populations to three distinct experimental interventions  
15 (the three ballot designs). We would expect—from the common knowledge about voter  
16 sophistication that Donovan reviews—that new (thus younger) voters would be more confused about  
17 politics *in general*, but that is not the issue; it is whether they, and subjects exposed to those three  
18 interventions in the other two experimental populations, respond in a more or less confused manner  
19 to that three ballot designs.

20  
21 14. In effect, therefore, Manweller has conducted three replications of his experimental  
22 design, one among each of three populations distinguished by different levels of political  
23 sophistication and knowledge. Should Manweller's data have confirmed that these populations did  
24 differ as expected in such sophistication and knowledge it would have comprised an unsurprising  
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1 confirmation of Manweller's entering assumption about political knowledge but it would not have  
2 borne on the issue at hand—the potential for confusion in diverse ballot designs. Should his data  
3 have shown that confusion differed by ballot design *within* one or more of those three separate  
4 subject populations, the finding would have addressed directly his theoretical concern with ballot  
5 design—that being, of course, precisely what Manweller observed.

6       15.     The incidence of the three “information types” within the natural population (in  
7 particular, presumably, the natural population of Washington state) does bear on the natural world  
8 importance of any such findings—that is to say, the extent to which the findings about ballot design  
9 might generalize to those natural populations. Most notably, had Manweller found an effect by ballot  
10 design in the least sophisticated population only, then Donovan's repetition of the standard findings  
11 about widespread voter ignorance *would* be relevant—showing, however, precisely that ballot design  
12 would matter greatly in any representative natural population where low levels of political  
13 knowledge and sophistication are known to exist. On the other hand, had Manweller found such an  
14 effect of ballot design across all three populations, the conclusion that ballot design matters would  
15 have been stronger still.

16       16.     This is the important issue of ‘external validity’ that all experimentalists must  
17 confront, and Manweller goes a long way toward addressing that by introducing his experimental  
18 stimulus to the three populations differing in political knowledge—a real world parameter that  
19 Donovan (along with the rest of the Political Science world) recognizes is notably low across the  
20 whole population. Perplexingly in this context, Donovan does critique Manweller for not employing  
21 a ‘control group’, in particular, an experimental population in which subjects responded to a standard  
22 partisan ballot. It is, of course, normal for survey researchers interested in isolating the ‘causal  
23 impact’ of some individual attribute to ‘control for’ everything that might arguably have a causal  
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1 impact on both the dependent and independent variable—and to do so, usually, by employing some  
2 variant of multiple or partial regression. But this is nothing more than a survey researcher's attempt  
3 to capture the causal inferences that are available from well-designed experiments, and more  
4 *powerfully* available there than in survey research. I can see nothing to be gained by such  
5 'controlling' in the present context, granted (1) that Manweller's use of three distinct populations and  
6 replication of the design within each is precisely a 'control' in Donovan's terms, and (2) that random  
7 assignment of subjects to experimental stimuli within the three populations effectively addresses the  
8 concern that survey researchers address with the exercise of statistical devices intended to isolate a  
9 causal effect of one survey-measured variable on another such variable.

10 17. I point out that 'random assignment' does not necessarily require use of, for example,  
11 a table of random numbers in assigning subjects to ballot conditions. It only requires that the method  
12 by which an experimenter assigns subjects to experimental condition (in Manweller's case, to those  
13 conditions within each of his three subject populations) is not plausibly related to the manner in  
14 which they might respond to particular experimental interventions. It is normal among laboratory  
15 researchers to assign subjects to experimental conditions in the order in which they sign up for an  
16 experiment or, perhaps, alphabetically by name. Notice that I am *not* speaking here of assignment to  
17 the different populations in which Manweller conducted his experiment; those assignments,  
18 obviously and sensibly, were made according to their political involvement.

19 18. Certainly, 'external validity' in any social experiment cannot be perfect; there are  
20 many emotional and other considerations that concern voters in 'real' elections that simply  
21 cannot be present in the laboratory—a problem, notice, that is no less difficult for survey  
22 researchers than for experimentalists. Nevertheless, Manweller has gone as far as is reasonably  
23 possible to present voters with the information circumstances that they would confront in the  
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1 natural world use of various types of ballots—and information is, of course, critical to the issue  
2 of voter ‘confusion.’

3 19. Similarly, ‘internal validity’ concerns whether the experimental situation does or  
4 does not provide subjects with information that is extraneous to the theoretical question at hand,  
5 but that might bear on their response to the experimental intervention. One major concern here  
6 is whether the experimenter—in instructions to subjects or otherwise without being aware of the  
7 fact—provides cues as to how subjects ‘ought’ to respond. I don’t know any reason to suppose  
8 that internal validity of this order is a concern in Manweller’s experiments. The objective is to  
9 measure the consequences of ballot design for subjects’ (“voters”) understanding of the  
10 information that is available, and there is every reason from his description of his interaction  
11 with the subjects for accepting that Manweller limited himself to the absolute minimum of  
12 extraneous interaction in that context. The questions presented, reflected at WSDCC 00032 of  
13 the Manweller report, are expressly limited to the information contained in the sample ballot  
14 presented.  
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16 20. The criticisms expressed by Professor Donovan at pages 3 - 11 of the Report on  
17 Paper by Mathew Manweller are misplaced. The question tested by Professor Manweller’s study  
18 is whether ballot design presented causes confusion regarding the relationship between  
19 candidates and political parties among those confronted with the ballot. It is not necessary to test  
20 whether some other ballot design—for example, a regular, fully partisan ballot—might cause  
21 more or less confusion in order to reach the conclusions expressed in Professor Manweller’s  
22 report. I have addressed this issue above in the context of Donovan’s concern about Manweller’s  
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1 alleged failure to introduce appropriate control variables—which, as I argue there, is also quite  
2 misplaced.

3         21. Two of the criticisms leveled by Professor Donovan do, perhaps, have some  
4 validity. Certainly, it would have been better for the number of observations, referred to as “n,”  
5 to have been reflected in Tables 6 and 7. It is, however, a simple matter to amend those tables to  
6 include the number of observations. The size of the second sample, referred to in the Manweller  
7 reports as “registered voters,” also appears to be somewhat small. However, it is certainly not so  
8 small that it deprives the experiment of validity. There have been numerous experiments  
9 conducted and results published where the “n” is no larger than in the Manweller experiment.  
10 The criticism at pages 23 – 29 rely on standards for public opinion research where the size of a  
11 ‘representative sample’ does bear on the confidence that can be placed on that sample as  
12 adequately reflecting the target population. The experiment is not testing attitudes or opinions,  
13 but the consequences of presentation of particular information.

15         22. But this is also beside the point. It is widely understood that the power of an  
16 observed experimental intervention (an ‘effect’) on some behavior or perception of interest is a  
17 function of both the difference size (in this case, the observed difference in ‘confusion’ between  
18 experimental populations) *and* the number of individuals in the experimental condition. It  
19 follows that statistically significant effects with relatively small numbers are *more* impressive  
20 than had numbers been much larger.

22         23. It might have helped avoid misunderstandings had Manweller summarized the  
23 experimental design in tabular format—making clear that there were, in effect, three replications  
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1 of the same experiment by levels of information. But this is a small point, and the tables  
2 presenting Manweller's data ought to have made that amply clear.

3       24. I am not a statistician and would prefer not to comment in greater detail on  
4 Donovan's criticisms of Manweller's statistical methods—other than to say that they appear  
5 quite normal as employed by experimentalists not only in Political Science, but also in  
6 Psychology and Economics, as well as in the natural sciences.

7       25. In his discussion of terminology employed in questions to subjects (pp. 38-44)  
8 Professor Donovan gives a quite correct account of the problems that survey researchers have  
9 recognized with respect to the particular wording that they use in their questions; it has been  
10 known for sixty or more years that survey researchers can 'get' quite different responses from  
11 people they are interviewing by using different phraseology. This is not news. The relevant  
12 question is whether Manweller's phraseology falls into the same trap. I can see no way that  
13 Manweller could have phrased his questions more simply. In fact, adding further information or  
14 explanation would simply have introduced more opportunity for interviewer bias to have crept in  
15 and would, thus, have made measuring the effect of ballot design more problematic.

16       26. In fact, the analogy to "surveys to measure public attitudes about 'abortion [ ]',"  
17 just further illustrates Professor Donovan's confusion between the problems of survey research  
18 and those of laboratory research. There is nothing in Professor Donovan's discussion of the term  
19 "abortion" that suggests that survey respondents would not understand what an abortion is—only  
20 that respondents have conflicting attitudes regarding its propriety. Consistent with the kind of  
21 problem addressed by standard survey research methodology, Professor Donovan appears to be  
22 preoccupied with the well-understood issues involved with measuring attitudes (e.g. toward  
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1 abortion) not with differential responses to some political stimulus—something that would be  
2 difficult at best to address via survey methodology, but is appropriately and readily addressed by  
3 standard experimental methods (as Manweller's work illustrates).

4       27. In Section IX of his report, Professor Donovan asserts that the interpretation of  
5 voter error under the experiment is mistaken. He bases his criticism on his statements that  
6 political parties may endorse candidates who may appear on the Top Two ballot. Professor  
7 Manweller's report makes clear that the ballots used in the experiment do not list any real  
8 candidates. The instructions to participants in the experiment plainly state that the answers are to  
9 be based solely on the information presented in the sample ballot itself. I am at a loss to  
10 understand how he believes subjects could interpret this as in any way involving endorsement (or  
11 not) of real candidates in the natural political world.  
12

13       28. Professor Donovan's suggestion that connections among real political candidates  
14 might change the effect of ballot design in the natural world is imaginably true (although I know  
15 no evidence that it is)—but it begs the theoretical question being addressed by Manweller's  
16 analysis which is simply and only the effect of ballot design on voter confusion. A wide variety  
17 of natural world conditions might, imaginably, influence any observed effect but that is a  
18 different issue altogether.  
19

20       29. In reviewing my comments above I recognize that, in places, I have adopted  
21 something of a 'tutorial' tone, but I mean no offense to Donovan who is obviously quite skilled  
22 in his particular methodological domain. As I have indicated above, experimental methods are  
23 still very much a minority activity among empirical political scientists, and few departments  
24 offer such training in their graduate programs. For some years since the initial work appeared in  
25

1 the 1970s it was necessary, when submitting such studies to political science journals, to spend  
2 much space explaining basic methodological issues such as those discussed above. Even now,  
3 Professor Donovan is by no means alone among political scientists in confusing the finer points  
4 of experimental methods with the problems encountered in survey research. As evidence that  
5 experimentalism is becoming more widely appreciated in the discipline, I need only point to the  
6 accomplishments of Elinor Ostrom—a recent President of the American Political Science  
7 Association as well as the Public Choice Society and an accomplished experimentalist—who  
8 received the last Nobel Prize (for economics) in significant part because of her pioneering  
9 laboratory work in and around the problem of behavior toward public goods.  
10

11 30. I have neither requested nor received any compensation for my review of the  
12 reports referenced herein, or the preparation of this declaration.

13 Executed at EUGENE, Oregon on September 8, 2010.

14  
15   
16 John M. Orbell

Monday, September 13, 2010

## **VITA**

### **JOHN M. ORBELL**

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### **PERSONAL DATA:**

Born June 3, 1936, New Zealand  
US and New Zealand citizen.  
Married, two children

### **DEGREES AWARDED:**

B.A. (History) -	University of Auckland, New Zealand, 1957
M.A. (History) -	University of Auckland, New Zealand, 1960
Ph.D. (Political Science) -	University of North Carolina, Chapel Hill, 1965. Dissertation dealing with the origins of the protest movement among black college students in the early 'sixties. Advisor: James W. Prothro

### **HONORS**

Distinguished Professor of Political Science and Cognitive Science, College of Arts and Science, University of Oregon, 1997-

### **PREVIOUS POSITIONS:**

1960-61	High school teacher in New Zealand
1961-1964	Teaching and research assistant, Department of Political Science, University of North Carolina at Chapel Hill
1964-1965	Instructor, Department of Political Science, The Ohio State University, Columbus, Ohio
1965-1967	Assistant Professor, Department of Political Science, The Ohio State University, Columbus, Ohio.
1967-1969	Assistant Professor, Department of Political Science, The University of Oregon, Eugene, Oregon
1969-1973	Associate Professor, University of Oregon
June-	

Aug., 1972 Visiting lecturer, Department of Political Science, University of Canterbury, Christchurch, New Zealand  
 1973- Professor, University of Oregon  
 May, 1973-  
 Nov, 1974 Visiting lecturer, Department of Political Science, University of Canterbury  
 June-  
 Aug., 1975 Visiting lecturer, Department of Political Science, University of Canterbury  
 1976-1979 Department Head, Department of Political Science, University of Oregon  
 1979-1983 Director, Institute for Social Science Research, University of Oregon  
 1983-1985 Associate Dean for Undergraduate Studies, College of Arts and Sciences, University of Oregon  
 1985-1986 Visiting Professor, Department of Social and Decision Sciences, Carnegie-Mellon University, Pittsburgh, PA 15213  
 1986-1987 Visiting Merrill Professor of Political Science, Political Science Department, Utah State University, Logan, Utah 84322.  
 Spring, 1993 Visiting Merrill Professor of Political Science, Political Science Department, Utah State University, Logan, Utah 84322.  
 1998-2001 Director, Institute of Cognitive and Decision Sciences, University of Oregon  
 Spring, 2003 Emeritus professor, University of Oregon

## **SCHOLARSHIP:**

### ***In progress:***

“The evolutionary roots of human sociality.” With Tim Johnson & Mikhail Myagkov. An NSF-funded laboratory project developing an evolutionary explanation of our previously published findings with respect to the human propensity to form cooperative groups in the domain of losses more than in the domain of gains. In progress.

Modeling the human response to abrupt climate change, worldwide. An NSF-funded project (Cyber-Enabled Discovery and Innovation). Oregon PI; Project PI Oleg Smirnov, Stony Brook. With Douglas Kennett (archaeology) and Amy Lobben (geography) at Oregon, and Haipeng Xing (statistics) and Minghua Zeng (climate science) Stony Brook.

### ***Publications:***

“An Evolutionary Account of Suicide Attacks: The Kamikaze Case.” Forthcoming in *Political Psychology*. With Tomonori Morikawa.

“The Selective Consequences of War.” Forthcoming. With Holly Arrow, Oleg Smirnov and Douglas Kennett (2007). In Thompson, L. and K. Behfar (Eds.). *Conflict in organizational groups: New directions in theory and practice*. Evanston, IL: Northwestern University Press Board.

“Ancestral Warfare and the Evolutionary Origins of ‘Heroism.’” November, 2007. With Oleg



- Smirnov, Holly Arrow and Doug Kennett. in *Journal of Politics*. Pp. 927-940.
- “Evolutionary Psychology and a More Satisfactory Model of Human Agency.” 2007. In *Cooperation: A Powerful Force in Human Relations*. Edited by B.A. Sullivan, M. Snyder, and J.L. Sullivan. Blackwell. With James Hanley, Jason Hartwig and Tomonori Morikawa.
- “Mindreading and Manipulation in an Ecology of Prisoner’s Dilemma Games: Laboratory Experiments,” *Journal of Bioeconomics*, (2006) 200:67-83. With Mikhail Myagkov.
- “Science, Anti-Science, and Rational Choice.” *The Political Economist; Newsletter of the section on political economy, American Political Science Association*. Fall, 2005.
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- “Teaching Bioeconomics: A Political Scientist’s Experience Teaching Evolutionary Psychology.” *Journal of Bioeconomics* (2005) 7: 41-44.
- “‘Machiavellian’ Intelligence and the Evolution of Cooperative Dispositions.” 2004. Orbell, John, Tomonori Morikawa, Jason Hartwig, James Hanley and Nicholas Allen. *The American Political Science Review*, 98: 1. Pp. 1-16.
- “‘Social Poker: A Laboratory Test of Predictions from Club Theory.’” Scott Crosson, John Orbell and Holly Arrow. *Rationality and Society*. May, 2004: 16, No. 2. Pp. 225-248.
- “Conflict, Interpersonal Assessment, and the Evolution of Cooperation; Simulation Results.” 2003. In *Trust, Reciprocity, and Gains from Association; Interdisciplinary Lessons from Experimental Research*, edited by Elinor Ostrom and James Walker, Russell Sage Foundation. With James Hanley and Tomonori Morikawa. Pp. 170-206.
- “Cognitive Requirements for Conflict of Interest Games; A Functional Analysis.” With Tomonori Morikawa and James Hanley. *Politics and the Life Sciences*, March, 2002. 21:1, Pp. 3-12.
- “The Evolution of Political Intelligence: Simulation Results.” With Tomonori Morikawa and Nicholas Allen. *British Journal of Political Science*, 2002. 32: 613-639.
- “Physical Attractiveness, Opportunity and Success in Everyday Exchange.” May 1998. *American Journal of Sociology* 103: 1565-92. With Matthew Mulford, Catherine Shatto and Jean Stockard.
- "Individual Experience and the Fragmentation of Societies." 1996. *American Sociological Review*: 61: 1018-1032. With Langche Zeng and Matthew Mulford.

- "The Robustness of Cognitively Simple Judgment in Ecologies of Prisoner's Dilemma Games." 1996. *BioSystems; A Journal of Biological and Information Processing Sciences*: 37. With Audun Runde and Tom Morikawa, 81-97.
- "Teaching *Evolution, Cooperation and Ethics*." 1996. *Politics and the Life Sciences*. March. 121-124.
- "The Benefit of Optional Play in Anonymous and One-Shot Prisoner's Dilemma Games." 1995. In K. Arrow, R. Mnookin, L. Ross, A. Tversky, R. Wilson (eds.), *Barriers to conflict Resolution*. Norton & Co., with Robyn Dawes, 62-85.
- "The Advantage of Being Moderately Cooperative." 1995. *The American Political Science Review* 89: 601-611. September. With Tom Morikawa and Audun Runde.
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