

## Mark Olson

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### Education

Ph.D. (Social Sciences), California Institute of Technology, June 1991.

M.S. (Statistics), University of Arizona, May 1979.

B.A. (Mathematics), University of Arizona, May 1977.

### Publications

with Jeffrey Banks, David Porter, Steve Rassenti and Vernon Smith, "Theory, Experiment and the Federal Communications Commission Spectrum Auctions," *Journal of Economic Behavior and Organization*, forthcoming.

with John O. Ledyard, David Porter, Joseph A. Swanson, and David P. Torma, "The First Use of a Combined Value Auction for Transportation Services" to appear in *INTERFACES*.

with Takashi Ishikida, John Ledyard, and David Porter, "Experimental Testbedding of a Pollution Trading System: Southern California's RECLAIM Emissions Market", *Research in Experimental Economics*, Vol 8. Elsevier Science, 2000.

with S. Rassenti, V. Smith, and M. Rigdon, "Market Design and Motivated Human Trading Behavior in Electricity Markets," *Proceedings of the 32th International Conference on Systems Sciences*, 1999.

with James C. Cox, Theo Offerman, and Arthur J.H.C. Schram, "Competition For vs. On the Rails: A Laboratory Experiment", forthcoming International Economic Review.

with P. Alsemgeest, and C. Noussair, "Experimental Comparisons of Auctions Under Single- and Multi-Unit Demand," *Economic Inquiry*, Vol. XXXVI, No. 1, January 1998, pp. 87-97. .

with J. Banks and D. Porter, "An Experimental Analysis of the Armed Bandit Problem," *Economic Theory*, Vol. 10, No. 1, 1997, p 55-78.

with Charles Noussair, "Dynamic Decisions in a Laboratory Setting", *Southern Economic Journal*, Vol. 63, No. 4, 1997.

with C. Keser, "The Declining Price Anomaly in Sequential Auctions," *Economics of the Arts*, eds. Victor A. Ginsberg and Pierre-Michel Menger, Elsevier, Amsterdam, NL, 1996, pp. 151-176.

with M. Bykowsky and A. Schram, "Veiling van etherfrequenties (The auctioning of the radio spectrum)," *Economisch Statistische Berichten*, 1995, 80, pp. 201-205.

with D. Porter, "An experimental examination into the design of decentralized methods to solve the assignment problem with and without money," *Economic Theory*, Vol. 4, No. 1, 1994, pp. 11-40.

with J. Quirk, H. Habib-Agahi, and G. Fox, "Uncertainty and Leontief Systems: An Application to the Selection of Space Station System Designs," *Management Science*, May 1989, Vol. 35, No. 5.

## **Papers**

with T. Isikada, J. Ledyard, and D. Porter, "The Experiments behind the Implementation of a Combinatorial Market. The Automated-Environmental Credit Exchange (ACE)".

with C. Keser, "Strategic Behavior in Sequential Auctions", July 1994.

with R. Morton, "Entry in spatial Competition and Strategic Uncertainty", TRACE discussion paper, Tinbergen Institute, Amsterdam-Rotterdam, 1994.

“Dominant and Nash Strategy Mechanisms without Transfers in the Assignment Problem”, TRACE discussion paper 93-17, Tinbergen Institute, Amsterdam-Rotterdam, 1993.

“Computing Bayesian Equilibria for a Chit Mechanism Using a Genetic Algorithm”, Research Memorandum 9218, CREED, University of Amsterdam, Amsterdam, The Netherlands, April 1992.

“Bayesian Equilibria for a Point Count Voting Scheme or Chit Mechanism”, CREED, University of Amsterdam, April 1992.

“Strategic Balking in Queueing Systems”, Discussion Paper, Department of Economics, University of Arizona, Tucson, AZ, 1991.

with D. Porter, “Resource allocation in Complex Systems: Auctions, Priority, and Scheduling”, Economic Research Series, Jet Propulsion Laboratory, August 1989.

### **Grants**

Mark Olson (Principal Investigator), S. Rassenti, V. Smith, and J. Murphy. ”Design of computer Optimized Trading and Information Systems for Pollution Control. 3 Year grant.

### **Applied Research**

with D. Porter, S. Rassenti, and V.L. Smith, Experimental testing and design of a combinatorial auction for the U.S. FCC Spectrum Market. 1999-2000

with J. Cox, T. Offerman, and A.J.H.C. Schram, Experimental tests of combinatorial auctions for the allocation of rail transportation rights, for the Netherlands Ministry of Transportation. November 1997.

with A.J.H.C. Schram, The design of the Dutch radio frequency auctions, for the Netherlands Ministry for Radio communications. October, 1996.

with T.M. McDaniel, A.J.H.C. Schram, and F.A.A.M. van Widen, Information and Auction Design in the Dutch Flower Auctions, for the Bloemenveiling Aalsmeer, 1995,1996.

with T. Isikada, J. Ledyard, and D. Porter, The Design and Implementation of a Combinatorial Market for Pollution Permits in the Los Angeles Basin: The ACE Market, 1995, 1996.

with J. Ledyard, and D. Porter, The Design and Implementation of a Combinatorial Auction for Transportation Network Routes, Sears Logistics, 1994.

### **Related Job Experience**

*Economic Science Laboratory*, University of Arizona, Research Scholar, August 1997 to August 2001.

*Purdue University*, Department of Economics, Visiting Assistant Professor, August 1996 to July 1997.

*Center for Research in Experimental Economics and Political Decision Making (CREED)*, University of Amsterdam, Amsterdam, The Netherlands. Senior Researcher, January 1992 to August 1996;

*University of Arizona*, Department of Economics, Economics Science Laboratory. Visiting Researcher, August 1991 to December 1991.

*Jet Propulsion Laboratory/NASA/California Institute of Technology*, Economic Analysis Group. Technical staff, June 1985 to June 1991.

*Arizona Corporation Commission*, Telecommunication group, Economist, May 1984 to May 1985.

*AT&T Communications*, Economist, July 1983 to May 1984.

*University of Arizona*, Department of Economics and Department of Statistics, Instructor. August 1980 to July 1983. Economic Sciences Lab. Research Assistant, September 1982 to July 1983.

*Bureau of the Census*, Mathematical Statistician, Computer Programmer, July 1979 to August 1980.