

# Jonathan P. Caulkins

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## EDUCATION

Ph.D., Operations Research, M.I.T., 1990

Thesis: "The Distribution and Consumption of Illicit Drugs: Some Mathematical Models and Their Policy Implications," Supervisor: Arnold I. Barnett

S.M., Electrical Engineering and Computer Science, M.I.T., 1989

Thesis: "Inventory and the Strategic Value of Product-Flexible Manufacturing Systems," Supervisor: Charles H. Fine

M.S., Systems Science and Mathematics, Washington University, 1987

B.S., Systems Science and Engineering, Computer Science, and Engineering & Policy, Washington University, 1987

## EXPERIENCE

1990 - present H. Guyford Stever University Professor of Operations Research  
Carnegie Mellon University Heinz College  
2005 - 2011 Carnegie Mellon University in Qatar  
1999 - 2001 Founding Director of Pittsburgh Office, RAND  
1994 - 1996 Co-director of the Drug Policy Research Center, RAND

## RESEARCH INTERESTS

- Cannabis legalization
- Opioids
- Mathematical models of social policy problems and interventions
- Policies concerning drugs, crime, violence, delinquency, & prevention
- Optimal dynamic control, software quality, and decision making

## HONORS

University Professor, Carnegie Mellon, 2016  
National Academy of Engineering, 2015  
Omega Rho Lecturer, INFORMS, 2014  
Barash Lecturer, Purdue University, 2012  
Plenary speaker, EURO, 2012  
British Medical Association, Best Public Health Book of the Year (co-author), 2010  
INFORMS President's Award, 2010  
INFORMS Fellow, 2010  
H. Guyford Stever Chair of Operations Research, 2010  
IFORS Distinguished Lecturer at APORS, 2009  
National Academy of Engineering's Frontiers of Engineering, 2008  
Robert Wood Johnson Foundation Health Investigator Award, 2006  
INFORMS' Plenary speaker at ORPA-1 Conference in Ouagadougou, 2005  
Marschak Colloquium at UCLA, 2001  
Pittsburgh's Forty under Forty Award, 2000  
David N. Kershaw Award, Association for Public Policy Analysis & Management, 1999  
Carnegie Mellon University Heinz School Marcia Wade Teaching Award, 1999, 2013  
National Young Investigator, 1993 - 1999  
NSF Graduate Fellowship, 1987-1990  
Tau Beta Pi, Mortar Board National Honor Society, National Merit Scholar, 1983-1987  
Langsdorf Fellowship, Washington University, 1983-1987

## Advisory Roles

Advisory Panel for the Interactive Health Communication Environmental Scan, commissioned by Jewish Healthcare Foundation of Pittsburgh (1999 – 2000)  
Advisory Board, Center for Uncertain Systems: Tools for Optimization and Management, Carnegie Mellon (2000 - 2002)  
Board of Associates, Thiel College (2000 – 2003)  
Board of Trustees, Thiel College (2003 - 2012)  
Advisory Committee, The William J. Copeland Fund and the Elmer J. Tropman Nonprofit Management Institute (2000 – 2003; 2011 - present)  
Board of Advisors, Pittsburgh Technology Council (2000 - 2001)  
Faculty Advisory Board, Institute for the Study of Information Technology and Society (InSITEs), Carnegie Mellon (2001 – 2005)  
Partnership for a Drug Free America Social Marketing Advisory Board (2002 - )  
Pennsylvania Commission on Crime and Delinquency, Public Safety Advisory Committee (2003 - 2004)  
Advisory Committee, The Forbes Funds (2003 – 2005)  
Advisory Board, *Heinz School Review* (2003 – 2005)  
National Research Council Committee on Vaccines Against Drugs of Addiction (2002 - 2003)  
Institute of Medicine Committee on Reducing Tobacco Use: Strategies, Barriers, and Consequences (2004 – 2007)  
Allegheny County Jail Collaborative Advisory Committee (2004-2007)

PIRE Prevention Research Center Scientific Advisory Council (2004 – 2011; 2017)  
Australia’s Drug Policy Modeling Program, Advisory Board (2004 - 2012)  
ONDCP Data, Research, and Evaluation Committee Chair (2004 - 2008)  
National Research Council Committee on Estimating Costs to the Department of Justice of Increased Border Security Enforcement by the Department of Homeland Security (2010 - 2011)  
National Research Council Committee on Modernizing the Nation’s Crime Statistics (2013 - 2017)  
Institute of Medicine Committee on Health Implications of Raising the Minimum Age for Purchasing Tobacco Products (2013 - 2014)  
United Nations Office of Drugs and Crime Scientific Advisory Committee (2015-)  
National Academies of Sciences, Engineering, and Medicine Committee on Pain Management and Regulatory Strategies to Address Prescription Opioid Abuse (2016 - 2017)  
Institute for Behavior and Health, Advisory Committee (2011 - )  
Pennsylvania Governor’s Advisory Board on Health, Opioid Subcommittee (2016-2019)  
NIH/NIDA Advisory Council Workgroup on Cannabis Legalization (2016-2018)  
National Academy of Sciences, Engineering and Medicine Division of Behavioral and Social Sciences and Education (DBASSE) Advisory Committee (2018-)

## **PUBLICATIONS**

### **Books and Monographs**

Pardo, Bryce, Jirka Taylor, Jonathan P. Caulkins, Beau Kilmer, Peter Reuter, Bradley D. Stein. (2019). *The Future of Fentanyl and Other Synthetic Opioids*. RAND, Santa Monica, CA.

Babor, Thomas, Jonathan Caulkins, Benedikt Fischer, David Foxcroft, Keith Humphreys, Maria Elena Medina-Mora, Isidore Obot, Jurgen Rehm, Peter Reuter, Robin Room, Ingeborg Rossow, and John Strang. 2018. *Drug Policy and the Public Good, 2nd Edition*. Oxford University Press.

Caulkins, Jonathan P., Beau Kilmer and Mark A.R. Kleiman (2016). *Marijuana Legalization: What Everyone Needs to Know, 2nd Edition*. Oxford University Press.

Caulkins, Jonathan P., Beau Kilmer, Mark A. R. Kleiman, Robert J. MacCoun, Gregory Midgette, Pat Oglesby, Rosalie Liccardo Pacula, and Peter H. Reuter (2015). *Considering Marijuana Legalization: Insights for Vermont and Other Jurisdictions*, Santa Monica, Calif.: RAND Corporation, RR-864.  
[http://www.rand.org/pubs/research\\_reports/RR864.html](http://www.rand.org/pubs/research_reports/RR864.html).

Caulkins, Jonathan P., Angela Hawken, Beau Kilmer and Mark A.R. Kleiman (2012). *Marijuana Legalization: What Everyone Needs to Know*. Oxford University Press.

Kleiman, Mark A.R., Jonathan P. Caulkins, and Angela Hawken (2011). *Drugs and Drug Policy: What Everyone Needs to Know*. Oxford University Press. Spanish translation published in (2014) as *Drogas Y Políticas Sobre Drogas: Lo Que Todo El Mundo Necesita Saber*. University de Los Andes.

Babor, Thomas, Jonathan Caulkins, Griffith Edwards, David Foxcroft, Keith Humphreys, Maria Medina Mora, Isidore Obot, Jurgen Rehm, Peter Reuter, Robin Room, Ingeborg Rossow, and John Strang. 2010. *Drug Policy and the Public Good*. Oxford University Press.

Grass, Dieter, Jonathan P. Caulkins, Gustav Feichtinger, Gernot Tragler, and Doris Behrens. 2008. *Optimal Control of Nonlinear Processes: With Applications in Drugs, Corruption, and Terror*. Springer.

Caulkins, Jonathan P., Rosalie Pacula, Susan Paddock, and James Chiesa. 2002. *School-Based Drug Prevention: What Kind of Drug Use Does it Prevent?* RAND, Santa Monica, CA.

Caulkins, Jonathan P., Jay Cole, Melissa Hardoby, and Donna Keyser. 2002. *Intelligent Giving: Insights and Strategies for Higher Education Donors*. RAND, Santa Monica, CA.

Gill, Brian P., Jake Dembosky, Caulkins, and Jonathan P. 2002. *A "Noble Bet" in Early Childcare and Education: Lessons from One Community's Experience*. RAND, Santa Monica, CA.

Caulkins, Jonathan P., C. Peter Rydell, Susan S. Everingham, James Chiesa, and Shawn Bushway. 1999. *An Ounce of Prevention, a Pound of Uncertainty: The Cost-Effectiveness of School-Based Drug Prevention Program*, RAND, Santa Monica, CA.

Caulkins, Jonathan P., C. Peter Rydell, William L. Schwabe, and James Chiesa. 1997. *Mandatory Minimum Drug Sentences: Throwing Away the Key or the Taxpayers' Money?* RAND, Santa Monica, CA.

#### **Articles in Refereed Journals**

Caulkins, Jonathan P., Anne Gould, Bryce Pardo, Peter Reuter and Bradley D. Stein (forthcoming). Opioids and the criminal justice system: New challenges posed by the modern opioid epidemic. *Annual Review of Criminology, Volume 4*.

Heins, Sara, Jonathan P. Caulkins, Beau Kilmer, Bradley Stein. (forthcoming). Concentration of opioid utilization using different measurements. *Drug and Alcohol Dependence*.

Banks, David, Laura Albert, Jonathan Caulkins, Sylvia Fruhwirth-Schnatter, Fiona Grieg, Adrian Raftery, and Duncan Thomas. (forthcoming). A Conversation about

COVID-19 with Economists, Sociologists, and Operations Researchers. Harvard Data Science Review.

Caulkins, Jonathan P., Bryce Pardo, and Beau Kilmer (forthcoming). Intensity of cannabis use: Findings from three online surveys. *International Journal of Drug Policy*.

Caulkins, Jonathan P., Bryce Pardo, and Beau Kilmer (2019). Supervised Consumption Sites: A Nuanced Assessment of the Causal Evidence. *Addiction*, 114:2109-2115. DOI 10.1111/add.14747. Response to commentaries: The benefits of evaluating literatures with essays, published in *Addiction*, 2019, 114:2120-2121. Additional comment published as Response to Belackova et al.: Disagreeing on Whether We Agree. *Addiction*, 2019, 115:784-787.

Caulkins, Jonathan P. and Michelle Kilborn (2019). Lower risk cannabis use guidelines: Will users listen? *American Journal of Public Health*. 45(6):689-697.

Caulkins, Jonathan. 2019. Legalising drugs prudently: The importance of incentives and values. *Journal of Illicit Economies and Development*. 1(3): 279–287. DOI: <https://doi.org/10.31389/jied.44>.

Caulkins, Jonathan P., Steven Davenport, Anhvinh Doanvo, Kyle Furlong, Aatir Siddique, Michael Turner, and Beau Kilmer (2019). Triangulating Web & General Population Surveys: Do Results Match Legal Cannabis Market Sales? *International Journal of Drug Policy*, 73:293-300. 10.1016/j.drugpo.2019.06.010.

Hall, Wayne, Daniel Stjepanović, Jonathan P. Caulkins, Michael Lynskey, Janni Leung, Gabrielle Campbell, and Louisa Degenhardt (2019). Public health implications of legalising the production and sale of cannabis for medical and recreational use. *The Lancet*, 394:1580-1590.

Caulkins, Jonathan P. and Michelle Kilborn (2019). Cannabis legalization, regulation, & control: A review of key challenges for local, state, and provincial officials. *The American Journal of Drug and Alcohol Abuse*, . 45(6), 689-697. DOI: 10.1080/00952990.2019.1611840.

Babor, Thomas, F., Jonathan Caulkins, Benedikt Fischer, David Foxcroft, Maria Elena Medina-Mora, Isidore Obot, Jürgen Rehm, Peter Reuter, Robin Room, Ingeborg Rossow, and John Strong (2019). Drug Policy and the Public Good: A Summary of the Second Edition. *Addiction*, 114(11):1941-1950.

Caulkins, Jonathan P., and Mark Kleiman. "Lessons to be Drawn from US Drug Control Policies." *European Journal on Criminal Policy and Research* 24, no. 2 (2018): 125-144. DOI: 10.1007/s10610-018-9376--3.

Parry, Charles David, Bronwyn J. Myers, and Jonathan P. Caulkins (2019). Decriminalisation of recreational cannabis in South Africa. *The Lancet*, 393:1804-1805.

Kilmer, Beau, Rosanna Smart, Jirka Taylor, and Jonathan P. Caulkins (2019). Prescribing diamorphine in the United States: Insights from a nationally representative survey. *Drug and Alcohol Dependence*, 196:62-65.

Caulkins, Jonathan P., Yilun Bao, Steve Davenport, Imane Fahli, Yutian Guo, Krista Kinnard, Mary Najewicz, Lauren Renaud, & Beau Kilmer (2018). Big data on a big new market: Insights from Washington State's legal cannabis market. *International Journal of Drug Policy*, 57:86-94.

Kress, Moshe, Jonathan P. Caulkins, Gustav Feichtinger, Dieter Grass, and Andrea Seidl (2018). Lanchester Model for Three-Way Combat. *European Journal of Operations Research*. 264(1):46-54.

Seidl, Andrea, Jonathan P. Caulkins, Richard F. Hartl, and Peter M. Kort (2018). Serious strategy for the makers of fun: Analyzing the option to switch from pay-to-play to free-to-play in a two-stage optimal control model with quadratic costs. *European Journal of Operations Research*. 267(2):700-715.

Smart, Rosanna, Jonathan P. Caulkins, Beau Kilmer, Steven Davenport, and Greg Midgette (2017). Variation in cannabis potency and prices in a newly-legal market: Evidence from 30 million cannabis sales in Washington State. *Addiction*. 112(12): 2167-2177, DOI: 10.1111/add.13886. Response to commentaries: New data sources for understanding cannabis markets, published in *Addiction*, 2017; 112(12): 2180-2181.

Caulkins, Jonathan P., Gustav Feichtinger, Dieter Grass, Richard Hartl, Peter M. Kort, and Andrea Seidl. (2017). Interaction of pricing, advertising, and experience quality: A dynamic analysis. *European Journal of Operations Research*, 256(3), 877-885.

Caulkins, Jonathan P. (2017). Recognizing and Regulating Cannabis as a Temptation Good. *International Journal of Drug Policy*, 42:50-56.

Caulkins, Jonathan P. and Beau Kilmer (2016). Considering marijuana legalization carefully: Insights for other jurisdictions from analysis for Vermont. *Addiction*, 111(12):2082-2089. Response to commentaries: The U.S. as an example of how not to legalize marijuana?, published in *Addiction*, 111(12): 2095-2096.

Wrzaczek, Stefan, Edward H. Kaplan, Jonathan P. Caulkins, Andrea Seidl, and Gustav Feichtinger (2016). Differential Terror Queue Games. *Dynamic Games and Applications*. 1-16. DOI: 10.1007/s13235-016-0195-1.

Davenport, Steven and Jonathan P. Caulkins (2016). Evolution of the U.S. Marijuana Market in the Decade of Liberalization before Full Legalization. *Journal of Drug Issues*, 46(4), 411-427.

Caulkins, Jonathan P., Emma Disley, Marina Tzvetkova, Mafalda Pardal, Hemali Shan, & Xiaoke Zhang (2016). Modeling the structure and operation of drug supply chains: The case of cocaine and heroin in Italy and Slovenia. *International Journal of Drug Policy*. 31:64-73. DOI: <http://dx.doi.org/10.1016/j.drugpo.2016.02.003>.

Seidl, Andrea, Edward H. Kaplan, Jonathan P. Caulkins, Stefan Wrzaczek, and Gustav Feichtinger (2016). Optimal Control of a Terror Queue. *European Journal of Operations Research*. 248:246-256.

Scott, Nick, Jonathan P. Caulkins, and Paul Dietze. 2016. How is methamphetamine typically purchased and used in Melbourne, Australia? Reports from a cohort of people who inject drugs. *Addiction Research and Theory*, 24(5), 416-425.

Scott, Nick, Peter Higgs, Jonathan P. Caulkins, Campbell Aitken, Shelley Cogger, and Paul Dietze. 2016. The introduction of CCTV and associated changes in heroin purchase and injection settings in Footscray, Victoria, Australia. *Journal of Experimental Criminology*, 12(2), 265-275.

Caulkins, Jonathan P. 2015. After the Grand Fracture: Scenarios for the Collapse of the International Drug Control Regime. *Journal of Drug Policy Analysis*. 24(1):60-68. Published online: DOI: [10.1515/jdpa-2015-0008](http://dx.doi.org/10.1515/jdpa-2015-0008).

Caulkins, Jonathan P., Gustav Feichtinger, Dieter Grass, Richard F. Hartl, Peter M. Kort, and Andrea Seidl (2015). Capital stock management during a recession that freezes capital markets. *Journal of Economic Behavior & Organizations*, 116:1-14, [doi:10.1016/j.jebo.2015.02.023](http://dx.doi.org/10.1016/j.jebo.2015.02.023).

Caulkins, Jonathan P., Jesse Sussell, Beau Kilmer, and Anna Kasunic (2015). How much of the cocaine market are we missing? Insights from respondent driven sampling in a mid-sized American city. *Drug and Alcohol Dependence*. 147:190-5, <http://dx.doi.org/doi:10.1016/j.drugalcdep.2014.11.032>.

Davenport, Steven, Jonathan P. Caulkins, and Mark A.R. Kleiman (2015). Controlling underage access to legal cannabis. *Case Western Reserve Law Review*, 65(3):541-566.

Scott, Nick, Jonathan P. Caulkins, Alison Ritter, and Paul Dietze. (2015). Patterns of drug preference and use among people who inject drugs in Melbourne, Australia. *Addiction Research and Theory*. DOI: 10.3109/16066359.2015.1031118.

Scott, Nick, Jonathan P. Caulkins, Alison Ritter, Catherine Quinn, and Paul Dietze. (2015). High-frequency drug purity and price series as tools for explaining drug trends and harms in Victoria, Australia. *Addiction*. **110**(1):120-128.

Caulkins, Jonathan P., Gustav Feichtinger, Dieter Grass, Richard F. Hartl, Peter M. Kort, and Andrea Seidl (2014). Skiba Points in Free End-time Problems. *Journal of Economic Dynamics & Control*. **51**:404-419. <http://dx.doi.org/10.1016/j.jedc.2014.11.003>.

Bond, Brittany, Jonathan P. Caulkins, Nick Scott, Beau Kilmer, and Paul Dietze (2014). Are users most recent drug purchases representative? *Drug and Alcohol Dependence*, **142**:133-138.

Caulkins, Jonathan P., Beau Kilmer, Peter H. Reuter, and Greg Midgette. (2015). Cocaine's Fall and Marijuana's Rise: Questions and Insights Based on New Estimates of Consumption and Expenditures in U.S. Drug Markets. *Addiction*. **110**(5): 728-736. doi: 10.1111/add.12628. Response to commentaries: Beyond prevalence: Importance of estimating drug consumption and expenditures, published in *Addiction*, 2015; **110**(5):743-745.

Pacula, Rosalie Liccardo, Beau Kilmer, Alexander C. Wagenaar, Frank J. Chaloupka, and Jonathan P. Caulkins (2014). Developing Public Health Regulations for Marijuana: Lessons from Alcohol and Tobacco. *American Journal of Public Health*. **104**(6):1021-1028.

Caulkins, Jonathan P., Gustav Feichtinger, Dieter Grass, Richard F. Hartl, Peter M. Kort, Andreas J. Novak, Andrea Seidl, and Franz Wirl (2013). A Dynamic Analysis of Schelling's Binary Corruption Model: A Competitive Equilibrium Approach. *Journal of Optimization Theory and Applications*. Doi: 10.1007/s10957-013-0420-7.

Caulkins, Jonathan P., Gustav Feichtinger, Dieter Grass, Richard F. Hartl, Peter M. Kort, Andrea Seidl (2013). When to Make Proprietary Software Open Source. *Journal of Economic Dynamics and Control*, **37**(6):1182-1194.

Caulkins, Jonathan P., Susan Everingham, Beau Kilmer, and Greg Midgette (2013). The whole is just the sum of its parts: Limited polydrug use among the "big three" expensive drugs in the United States. *Current Drug Abuse Reviews*. **6**(2):919-97.

Burns, Rachel Melissa, Jonathan P. Caulkins, Susan S. Everingham, and Beau Kilmer (2013). Statistics on cannabis use skew perceptions of cannabis use. *Frontiers in Psychiatry*. **4**:138. doi: 10.3389/fpsy.2013.00138.

Caulkins, Jonathan P., Angela Hawken, Beau Kilmer, Mark Kleiman, Katherine Pfrommer, Jacob Pruess, and Timothy Shaw (2013). High tax states: Options for gleaning revenue from legal cannabis. *Oregon Law Review*, **91**(4):1041-1068.



Reprinted in *Criminal Law and the Regulation of Vice, 2nd Edition*, Franklin E. Zimring and Bernard Harcourt (eds.), Thomson West.

Caulkins, Jonathan P., Gustav Feichtinger, Dieter Grass, Richard F. Hartl, Peter M. Kort, Andreas J. Novak, Andrea Seidl (2013). Leading Bureaucracies to the Tipping Point: An Alternative Model of Multiple Stable Equilibrium Levels of Corruption. *European Journal of Operations Research*. **225**: 541-546, Doi:10.1016/j.ejor.2012.10.026.

Caulkins, Jonathan P., Gustav Feichtinger, Richard F. Hartl, Peter M. Kort, Andreas J. Novak, Andrea Seidl (2013). Long Term Implications of Drug Policy Shifts: Anticipating and Non Anticipating Consumers. *Annual Reviews in Control*, 37(1):105-115.

Caulkins, Jonathan P., Gustav Feichtinger, Richard F. Hartl, Peter M. Kort, Andreas J. Novak, Andrea Seidl (2013). Multiple Equilibria and Indifference-Threshold Points in a Rational Addiction Model. *Central European Journal of Operations Research*, 21(3):507-522.

Paddock, Susan M., Beau Kilmer, Jonathan P. Caulkins, Marika J. Booth and Rosalie L. Pacula (2012). An Epidemiological Model for Examining Marijuana Use over the Life Course. *Epidemiology Research International*. Article ID: 520894. Doi:10.1155/2012/520894. PMCID: PMC3518305.

Caulkins, Jonathan P., Anna Kasunic, and Michael A.C. Lee (2012). Marijuana Legalization: Lessons from the 2012 State Proposals. *World Medical and Health Policy*. 4(3):4-34. Reprinted in *Policy Diagnosis: Public Policy Insights for Public Health Cures*, Bonnie Stabile (ed.), Westphalia Press, Washington DC, pp.67-96.

Caulkins, Jonathan P.; Coulson, Carolyn C.; Farber, Christina; and Vesely, Joseph V. (2012) Marijuana Legalization: Certainty, Impossibility, Both, or Neither?, *Journal of Drug Policy Analysis*, 5(1):1-27.

Strang, John, Thomas Babor, Jonathan P. Caulkins, Benedikt Fischer, David Foxcroft, and Keith Humphreys (2012). Drug Policy and the Public Good: evidence for effectiveness of interventions. *Lancet*. 379(9810):71-83.

Coulson, Carolyn and Jonathan P. Caulkins (2012). Scheduling of Newly Emerging Drugs: A Critical Review of Decisions Over 40 Years. *Addiction*. 107(4):766-773.

Caulkins, Jonathan P. and Brittany Bond (2012). Marijuana Price Gradients: Implications for Exports and Export-Generated Tax Revenue for California After Legalization. *Journal of Drug Issues*. 42(1):28-45.

Caulkins, Jonathan P., Beau Kilmer, Robert J. MacCoun, Rosalie Liccardo Pacula, and Peter Reuter. 2012. Design Considerations for Legalizing Cannabis: Lessons Inspired by Analysis of California's Proposition 19. *Addiction*. 107(5): 865-871 (Response to commentaries also published as pp.876-877.)

Caulkins, Jonathan P., Peter Reuter, and Carolyn Coulson. 2011. Basing Scheduling Decisions on Scientific Rankings of Drugs' Harmfulness: False Promise from False Premises. *Addiction*. 106: 1886-1890 (Response to commentaries also published.)

Caulkins, Jonathan P. and Carolyn Coulson (2011). To Schedule or not to Schedule: How Well Do We Decide? *Journal of Global Drug Policy and Practice*. 5(4).

Kilmer, Beau, Jonathan P., Caulkins, Rosalie Liccardo Pacula, and Peter Reuter. 2011. Bringing Perspective to Illicit Markets: Estimating the Size of the U.S. Marijuana Market. *Drug and Alcohol Dependence*. 119, 153-160.

Caulkins, Jonathan P., Gustav Feichtinger, Dieter Grass, Richard F. Hartl, Peter M. Kort, and Andrea Seidl. 2011. Optimal Pricing of a Conspicuous Product During a Recession that Freezes Capital Markets. *Journal of Economic Dynamics and Control*. 35:163-174.

Zeiler, Irmgard, Jonathan P. Caulkins, and Gernot Tragler. 2011. Optimal Control of Interacting Systems with DNSS Property: The Case of Illicit Drugs. *Journal of Economic Behavior and Organizations*, 78:60-73. DOI: 10.1016/j.jebo.2010.12.008.

Reuter, Peter, Rosalie Liccardo Pacula, and Jonathan P. Caulkins. 2011. RAND's Drug Policy Research Center. *Addiction*. 106(2):253-259. DOI: 10.1111/j.1360-0443.2010.03017.x.

Caulkins, Jonathan P. (2011). The Global Recession's Effect on Drug Demand – Diluted by Inertia. *International Journal of Drug Policy*, 22:374-375. doi:10.1016/j.drugpo.2011.02.005.

Zeiler, Irmgard, Jonathan P. Caulkins, Dieter Grass, and Gernot Tragler. 2010. Keeping Options Open: an Optimal Control Model with Trajectories that Reach a DNSS Point in Positive Time. *SIAM Journal on Control and Optimization*. 48(6):3698-3707.

Caulkins, Jonathan P. and Robert L. DuPont. 2010. Is 24/7 Sobriety a Good Goal for Repeat DUI Offenders? *Addiction*. 105:575-577.

Caulkins, Jonathan P. and David Baker. 2010. Cobweb Dynamics and Price Dispersion in Illicit Drug Markets. *Socio-Economic Planning Sciences*. 44(4): 220-230. doi:10.1016/j.seps.2010.06.001.

Caulkins, Jonathan P. 2010. Might Randomization in Queue Discipline Be Useful When Waiting Cost is a Concave Function of Time? *Socio-Economic Planning Sciences*. 44:19-24, DOI: [10.1016/j.seps.2009.04.001](https://doi.org/10.1016/j.seps.2009.04.001).

Caulkins, Jonathan P., Richard F. Hartl, and Peter M. Kort. 2010. Delay Equivalence in Capital Accumulation Models. *Journal of Mathematical Economics*. 46: 1243-1246. DOI:10.1016/j.jmateco.2010.08.021.

Caulkins, Jonathan P. and Nancy Nicosia. 2010. What Economics Can Contribute to the Addiction Sciences. *Addiction*, 105(7):1156-1163. DOI: 10.1111/j.1360-0443.2010.02915.x.

Gallupe, Owen, Martin Bouchard, and Jonathan P Caulkins. 2010. No change is a good change? Restrictive deterrence in illegal drug markets. *Journal of Criminal Justice*. 39:81-89 doi:[10.1016/j.jcrimjus.2010.12.002](https://doi.org/10.1016/j.jcrimjus.2010.12.002).

Caulkins, Jonathan P., Gustav Feichtinger, Gernot Tragler, and Dagmar Wallner. 2010. "When in a Drug Epidemic Should the Policy Objective Switch from Use Reduction to Harm Reduction." *European Journal of Operational Research*. Vol. 201, 301-318. DOI: 10.1016/j.ejor.2009.03.015.

Caulkins, Jonathan P., Dieter Grass, Gustav Feichtinger, and Gernot Tragler. 2009. Optimal Control of Terrorism and Global Reputation: A Case Study with Novel Threshold Behavior. *Operations Research Letters*. 37: 387-391. doi:10.1016/j.orl.2009.07.003.

Caulkins, Jonathan P. and Ryan Menefee. 2009. Is Objective Risk All that Matters When It Comes to Drugs? *Journal of Drug Policy Analysis*. Vol. 2, Issue 1, Article 1. DOI: 10.2202/1941-2851.1005, available at [www.bepress.com/jdpa/vol2/iss1/art1](http://www.bepress.com/jdpa/vol2/iss1/art1).

Caulkins, Jonathan P., Honora Burnett, and Edward Leslie. 2009. "How Illegal Drug Enter and Island Country: Insights from Interviews with Incarcerated Smugglers." *Global Crime*. Vol. 10, No. 1, pp.66-93. Reprinted in *Illegal Markets and the Economics of Organized Crime*, Martin Bouchard and Chris Wilkins (eds), Routledge, 2010.

Caulkins, Jonathan P., Benjamin Gurga, and Christopher Little. 2009. "Economic Analysis of Drug Transaction 'Cycles' Described by Incarcerated UK Drug Dealers." *Global Crime*. Vol. 10, No. 1, pp. 94-112. Reprinted in *Illegal Markets and the Economics of Organized Crime*, Martin Bouchard and Chris Wilkins (eds), Routledge, 2010.

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Caulkins, Jonathan P. and Peter Reuter. 2009. Toward a Harm Reduction Approach to Enforcement. *Safer Communities*, Vol. 8, No. 1, pp.9-23.

Bultmann, Roswitha, Jonathan P. Caulkins, Gustav Feichtinger, and Gernot Tragler. 2008. "How Should Drug Policy Respond to Market Disruptions." *Contemporary Drug Problems*. 35(2&3):371-395.

Caulkins, Jonathan P. 2008. "Implications of Inertia for Assessing Drug Control Policy: Why Upstream Interventions May not Receive Due Credit." *Contemporary Drug Problems*, 35(2-3):347-369.

Caulkins, Jonathan P. and Haijing Hao (2008) "Modeling Drug Market Supply Reductions: Where Do All the Drugs Not Go?" *Journal of Policy Modeling*. 30(2), pp. 251-270, DOI: 10.1016/j.polmod.2007.04.003.

Caulkins, Jonathan P., Dieter Grass, Gustav Feichtinger, and Gernot Tragler. 2008. "Optimizing Counter-Terror Operations: Should One Fight Fire with 'Fire' or 'Water'?" *Computers and Operations Research*, 35(6):1874-1885 doi: 10.1016/j.cor.2006.09.017.

Caulkins, Jonathan P., Emily Eelman, Minoli Ratnatunga, and David Schaarsmith. 2008. "Operations Research & Public Policy for Africa: Harnessing the Revolution in Management Science Instruction." *International Transactions in Operations Research*, 15:151-171.

Behrens, Doris A., Marion S. Rauner, and Jonathan P. Caulkins (2008). An Epidemic Model of the Spread of Hepatitis C via Commercial Tattoo Parlors: Implications for the Timing of Public Health Interventions. *OR Spectrum Special Issue on Bioinformatics and OR*, 30(2):269-288 DOI: 10.1007/s00291-007-0090-7.

Caulkins, Jonathan P. 2007. "The Need for Dynamic Drug Policy." *Addiction*. 102(1):4-7.

Caulkins, Jonathan P., Gustav Feichtinger, Gernot Tragler, and Vladimir Veliov. 2007. "Cycles of Violence: A Dynamic Control Analysis." *European Journal of Operations Research*. 181(1):350-361.

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Caulkins, Jonathan P. 2004. Comment on Kleiman's "Flying Blind on Drug Control Policy." *Issues in Science and Technology*, Vol. XXI, No. 1, pp.6-7.

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Caulkins, Jonathan P. 2002. "Insights Australia Should and Should Not Take from US Drug Policy." *Sydney Institute Papers*, Vol. 14, No. 1, pp.1-6.

Caulkins, Jonathan P. 2001. Book review of *Forces of Habit: Drugs and the Making of the Modern World*, David T. Courtwright, Harvard University Press, *Issues in Science and Technology*, Vol. XVII, No. 4, pp.85-87.

Caulkins, Jonathan P. 2001. Comment on "Should the DEA's STRIDE Data Be Used for Economic Analysis of Markets for Illegal Drugs," *JASA*, Vol. 96, No. 456.

Caulkins, Jonathan P. Forthcoming. "Drug Abuse Control Over the Epidemic Cycle: Policy Implications from Dynamic Models." Abstracts of the Marschak Colloquium at UCLA. *Mathematical Social Sciences*.

Caulkins, Jonathan P. 2001. Review of "A Study of Recidivism of Serious and Persistent Offenders Among Adolescents," by Brent B. Benda and Connie L. Tollett, 1999, *Journal of Criminal Justice*, 27(2):111-126, published in *International Journal of Forecasting*, Vol. 17, pp.135-140.

Barnett, Arnold I., Jonathan P. Caulkins, and Michael Maltz. 2001. "Crime and Justice," in *Encyclopedia of Operations Research and Management Science*, Centennial Edition, Saul I. Gass and Carl M. Harris (eds.), Kluwer Academic Publishers, Hingham, MA.

Caulkins, Jonathan P. 2000. "A Policy Analysis of Drug Legalization." Entry in *Encyclopedia of Drugs, Alcohol, and Addictive Behavior, Revised Edition*, Rosalyn Carson-DeWitt (ed.). Macmillan Reference Group, Farmington Hills, pp.878-882.

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Caulkins, Jonathan P. and Sally L. Satel. 1999. "Methadone Patients Should Not Be Allowed to Persist in Cocaine Use," Federation of American Scientists' *Drug Policy Analysis Bulletin*, Issue Number 6, pp.1-4.

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Caulkins, Jonathan P. 1998. "Drug Prevention: The Paradox of Timing," Federation of American Scientists' *Drug Policy Analysis Bulletin*, Issue Number 5, pp.1-3.

Caulkins, Jonathan P. 1997. Book review of *Global Habit: The Drug Problem in a Borderless World* by Paul Stares. *Politics and the Life Sciences*, Vol. 16, No. 1 (March), pp.148-150.

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Caulkins, Jonathan P. 1997. "Sense and Sensitivity Analysis," *OR/MS Today*, Vol. 24, No.6, pp.24-28.

Caulkins, Jonathan P. 1996. "Color-Blind Policies Not Enough: A Case in Favor of Affirmative Action," *OR/MS Today*, Vol. 23, No. 4, pp.25-27. [www.lionhrtpub.com/orms/orms-8-96/color-blind.html](http://www.lionhrtpub.com/orms/orms-8-96/color-blind.html).

Caulkins, Jonathan P. 1995. "Dealing with the Country's Drug Problem." *OR/MS Today*, Vol. 22, No.1, pp.32-40.

Caulkins, Jonathan P. 1995. "Yes: Treatment Is More Cost-Effective than Law Enforcement." *Insight*. June 12, pp.18-20.

Merz, Jon F. and Jonathan P. Caulkins. 1995. "Propensity to Abuse--Propensity to Murder?" *Chance*, Vol.8, No.2, p.14.

Caulkins, Jonathan P. 1994. Book review of *Crack and the Evolution of American Anti-Drug Policy* by Steven Belenko. *Criminal Justice Review*, Vol. 19, No. 2, pp.303-305.

Caulkins, Jonathan P. 1993. “Judge’s Commentary: The Coal Tipple Operations Papers.” *The UMAP Journal*, Vol. 14, No. 3, pp.275-276.

Caulkins, Jonathan P. 1993. Preface for special issue of *Mathematical and Computer Modelling* on drug markets and drug policy, Vol. 17, No. 2, pp.ix-xi.

Reuter, Peter, and Jonathan Caulkins. 1993. “ONDCP’s First Four Years as a Policy Agency,” RAND Congressional Testimony Series, CT-110, November.

Caulkins, Jonathan P. 1992. “Judge’s Commentary: The Emergency Power Restoration Problem.” *The UMAP Journal*, Vol. 13, No. 3, pp.269-271.

Caulkins, Jonathan P. 1991. “Practitioner’s Commentary: The Outstanding Steiner Tree Papers.” *The UMAP Journal*, Vol. 12, No.3, pp.279-280.

Barrett, Robert C., Jonathan P. Caulkins, and Andrew J. Yates. 1986. “Optimizing the Placement of Two Emergency Facilities.” *Mathematical Modelling*, Vol. 7, No. 4, pp.627-652.

Barrett, Robert C., Jonathan P. Caulkins, and Andrew J. Yates. 1985. “Population Dynamics of the Peruvian Anchovy.” *Mathematical Modelling*, Vol. 6, No. 6. Reprinted as “Peruvian Anchovy Population Dynamics.” *Undergraduate Journal of Mathematics and Its Applications*, Vol. 6, No. 3, pp.525-548.

### Articles in Newspapers

Articles or op-eds in the *The New York Times*, *Los Angeles Times*, *The Guardian*, *Pittsburgh Business Times*, *Plano News*, *Rochester Democrat and Chronicle*, *USA Today*, and the *Wall Street Journal*.

### COURSES TAUGHT (masters level unless otherwise noted)

Heinz Pittsburgh

#### Methods Classes

Decision Analysis & MCDM	S’91, S’92, S’96-’98, F’12-F’18
Decision and Risk Modeling	S’04, S’05, S’07, S’09-S’19
MISM/MSIT Decision Making Under Uncertainty	F’02, S’03, S’04, S’05, Su ‘12
Management Science	S’96 - 99, S’01 – 05, Su ’03
Operations Research for the Public Sector	F’93, S’05
Optimization	S’04, S’05, S’12-S’19
Ph.D. Seminar	F’91’F’93, F’97-F’99
Ph.D. Probabilistic Modelling Methods	S’92, S’93

## Policy Classes

Criminal Justice Policy	F'93, F'95, F'96, F'97, S'10
Illicit Drugs: The Challenge to Policy	F '90-F'96, S'08
Policy Decision Modeling Workshop	S'05, S'10, S'11, S'12
Physical Technical Systems II	S'91
Systems Synthesis	F'97,S'98,F'13,F'14,S'17,F'17,S'18

## Summer undergraduate classes in the QSSP program

Advanced Quantitative Analysis (Mathematical Modelling)	Su '91, Su '12
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## Adelaide Campus

Decision Making Under Uncertainty (in Adelaide, Australia)	S'07, Su '08
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## Qatar Campus (undergraduate classes)

Decision Making	S'06, S'07
Math Modeling for Consulting	F'09-F'11
Models and Methods for Optimization	S'06-S'09
Probability Theory and Random Processes	S'07-S'09, F'09, F'10
Probability and Statistics for Business Applications	F'05, F'09, F'10

## Executive Education

CIO Decision Making	S'03-S'07, S'09-S'17
Merging Perspectives on Drugs and Crime (Harvard JFK School)	Summer '99
MMM Operations Management	F'08-F'17
Project Management (Korean IT Executive Education Program)	Su'04

## RAND Graduate School

Ph.D.: Drugs, Crime, & Violence: Applying Quantitative Methods to Social Policy Problems	W'95
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## Vienna Institute of Technology (TU Wien)

Mathematical Modeling of Drug and Crime Policy	F'96
OR and Financial Modeling	S'02

## PROFESSIONAL SERVICE

### Editing

Guest Editor of Vol. 17, No. 2 *The International Journal of Mathematical and Computer Modelling*. "Mathematical Models of Drug Markets and Drug Policy."

Guest Editor with Gernot Tragler of *Socio-Economic Planning Sciences special issue: Drug Use, Markets, and Policy: Models for Adaptive Control of a Dynamic Problem.*"

Guest Editor with Gernot Tragler and Gustav Feichtineger of *Bulletin on Narcotics special issue.* "Dynamic Drug Policy Modeling."



*Management Science* (Associate editor 1995-1997 & 2003 - present; Departmental Editor 1998-2003)  
Associate Editor, *Operations Research* (1996-1999)  
Assistant Editor, *Journal of Drug Issues* (1993- present)  
Editorial Board Member, *Drug Policy Analysis Bulletin/Journal of Drug Policy Analysis* (1997 – present)  
Editorial Board Member, *Socio-Economic Planning Sciences* (2003 – 2013)  
Editorial Board Member, *I/S: A Journal of Law and Policy for the Information Society* (2004 – 2019)  
Member of Advisory Committee of *OR/MS Today* (2005 - 2007)

### **Refereeing**

Referee for: *Addiction*, *Addiction Research & Theory*, *African Journal of Business Management*, *American Economic Review*, *AIMS Conference Proceedings*, *American Journal of Criminal Justice*, *American Journal of Economics and Sociology*, *American Journal of Public Health*, *Australian and New Zealand Journal of Criminology*, *Australian Economic Papers*, *Behavioral Sciences and the Law*, *BioScience*, *BMC Medical Research Methodology*, *BMC Public Health*, *British Journal of Sociology*, *British Journal of Mathematical and Statistical Psychology*, *Brooks/Cole Publishing*, *Bulletin on Narcotic Drugs*, *Cambridge University Press*, *Central European Journal for Operations Research and Economics*, *Computers & Operations Research*, *Contemporary Drug Problems*, *Contemporary Economic Policy*, *Crime & Delinquency*, *Crime and Justice* edited volumes, *Crime, Law and Social Change*, *Criminal Justice Review*, *Criminology*, *Decision Analysis*, *Decision Support Systems*, *Drug and Alcohol Dependence*, *Drug and Alcohol Review*, *Drugs: Education, Prevention, and Policy*, *Drustvena Istrazivanja*, *Economic Letters*, *Education Research Journal*, *Electronic Journal of Evolutionary Modeling and Economic Dynamics (e-JEMED)*, *Evaluation and the Health Professions*, *Global Crime*, *Governance*, *Health Care Management Science*, *IEEE Transactions on Control Systems Technology*, *Information Sciences*, *Interfaces*, *International Journal of Comparative and Applied Criminal Justice*, *International Journal of Drug Policy*, *International Journal of Health Policy and Management*, *International Journal of Law and Criminal Justice*, *International Journal of Public Opinion Research*, *International Review of Law and Economics*, *I/S: A Journal of Law and Policy for the Information Society*, *JAMA Pediatrics*, *JASA*, *Journal of Addictive Diseases*, *Journal of Acquired Immune Deficiency Syndrome*, *Journal of Applied Econometrics*, *Journal of Benefit Cost Analysis*, *Journal of Business*, *Journal of Combinatorial Optimization*, *Journal of Criminal Justice*, *Journal of Defense Modeling and Simulation*, *Journal of Drug Issues*, *Journal of Drug Policy Analysis*, *Journal of Economic Dynamics and Control*, *Journal of Economics*, *Journal of Experimental Criminology*, *Journal of Health Economics*, *Journal of Health Policy, Politics, and Law*, *Journal of Law and Economics*, *Journal of Law, Economics, and Organization*, *Journal of Mathematical Biology*, *Journal of Organizational and End User Computing*, *Journal of Policy Analysis and Management*, *Journal of Quantitative Criminology*, *Journal of Research in Crime and Delinquency*, *Journal of Urban Economics*,

Journal of Urban Health, Justice Quarterly, Macroeconomic Dynamics, Management Science, Manufacturing and Service Operations Management, Mathematical and Computer Modelling, Mathematical Social Science, Multi-Echelon/Public Applications of Supply Chain Conference, National Cancer Institute Monograph Series, National Institute of Justice Research Report series, Naval Research Logistics, New England Journal of Medicine, Omega: The International Journal of Management Science, Operations Research, Optimal Control Applications and Methods, OR Spectrum, Pediatrics, Pew Center for the States, Policy Studies Journal, Public Health, Public Health Reviews, Public Policy Institute of California Report Series, RAND Report Series, Regulatory Toxicology and Pharmacology, Review of Law and Economics, Risk Analysis, Robert Wood Johnson Foundation Health Investigator Awards, Sage Press, Social Psychiatry & Psychiatric Epidemiology, Sociological Perspectives, Sociological Quarterly, Science, Substance Abuse and Rehabilitation, Time Sharing Experiments for the Social Sciences, United Kingdom Office of Science and Technology, United Nations Drug Control Program, United Nations University Press, Wiley Press, World Medical and Health Policy, Yale University Press.

### **Proposal Review Panels**

Austrian National Science Foundation, National Institute on Drug Abuse, National Institute of Health, National Institute of Justice, National Science Foundation, Oesterreichische Nationalbank, Pew Charitable Trusts, Robert Wood Johnson Foundation, Royal Society of New Zealand's Marsden Fund, Wellcome Trust

### **RESEARCH GRANTS**

National Science Foundation Graduate Fellowship, 1987-1990.

“Rating Players Who Compete In Disparate Sets of Unlike Tournaments.” National Science Foundation. \$42,673. Awarded March, 1992.

“Estimating Own and Cross Elasticities of Demand for Cocaine and Heroin: An Investigation Using DUF Data.” National Institute of Justice. \$25,000. Awarded in 1993.

“National Young Investigator Award.” National Science Foundation. \$125,000 - \$500,000 depending on matching funds. Awarded May, 1993.

“Assessing DoD’s Pilot Programs to Reduce Illegal Drug Use by Youth.” \$250,000. Office of the Secretary of Defense. Awarded March, 1994.

“Modeling Mandatory Minimum Drug Sentences.” Private individual. \$100,000. Awarded November, 1994.

“Drug Policy Research Center: Proposal for Refunding and Report on Activities.” Ford Foundation. \$1,800,000. Awarded August, 1995.

“Measuring the Cost-Efficacy of Drug Prevention.” Robert Wood Johnson Foundation. \$224,501. Awarded January, 1996.

“Dynamic Systems Modeling of the Evolution of Epidemics of Drug Use and Drug-Related Crime and Violence.” National Consortium on Violence Research. \$4,000. Awarded June, 1996.

“Drug Markets and Violence.” National Consortium on Violence Research. \$135,905. Awarded December, 1996.

“Supplement to Drug Markets and Violence.” National Consortium on Violence Research. \$10,000. Awarded July, 1997.

“Why Haven’t Drug Prices Risen with Tougher Enforcement?” Office of National Drug Control Policy and National Institute of Justice. \$261,502. Awarded July, 1998.

“Assessing and Improving the Value of ADAM for Drug Policy Modeling.” National Institute of Justice. \$24,950. Awarded January, 1999.

“Estimating the Effects of Drug Prevention Programs on the Use of Cocaine, Marijuana, Cigarettes, and Alcohol.” Robert Wood Johnson Foundation. \$97,860. Awarded February, 2000.

“A Center for the Analysis of Advancing Information Technologies: Planning Grant Proposal.” The Buhl Foundation. \$79,150. Awarded April, 2000.

“Private Insurance in CyberMarkets.” Alex C. Walker Educational and Charitable Foundation. \$20,000. Awarded December, 2000.

“The Impact of the Information Revolution on Public Policy: A Proposal for Customized Job Training.” Pennsylvania Department of Community and Economic Development. \$247,490. Awarded December, 2000.

“Insights and Strategies for Higher Education Philanthropy.” Private Individual. \$100,000. Awarded January, 2001.

“Describing and Predicting Drug Epidemics.” Robert Wood Johnson Foundation Substance Abuse Policy Research Program. \$61,731. Awarded January, 2003.

“Math Modeling of Social Policy Problems.” CMU-Q Research Fund. \$155,910 in direct costs. Awarded September, 2005.

“Synthesizing Lessons for Drug Policy and Policy Research.” Robert Wood Johnson Health Investigator Award. Awarded May, 2006. \$172,458.

“Modeling Control of Infectious Diseases with Behavior-Driven Infectivity.” Qatar National Research Foundation. Awarded December, 2007. \$132,754.

“Math Modeling of Social Policy Problems, II.” CMU-Q Research Fund. \$44,090 in direct costs. Awarded May, 2011.

“What Users Report about Marijuana’s Harms and Improving Understanding of Who Suffers from Frequent Marijuana Use.” The Achelis and Bodman Foundation. \$50,000. Awarded May, 2014.

“EAGER: ISN: Detecting and Disrupting Illicit Supply Networks via Traffic Distribution Systems.” Co-PI. National Science Foundation. \$299,924. Awarded October, 2018.