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EMPLOYMENT HISTORY

- August 2016-present, Director and Professor of Economics, Institute of Social and Economic Research, University of Alaska Anchorage
- June 2010-2016, Dean, College of Liberal Arts, Winona State University
 - Responsibility for administration of college with 135 full-time faculty in 12 departments from the humanities, social sciences, and arts. College operating budget of \$12 million. I had two overarching goals for the college: to build the human and physical resources of the college, and to raise the college's visibility as a destination public liberal arts program. Work with faculty in pursuit of those goals included:
 - A strong focus on investment in the college's human resources. Despite the difficult economic environment, the college recruited about 10 probationary faculty and 20 fixed-term faculty each year. The dean was actively involved in these recruiting efforts, working with the Affirmative Action office to insure that search processes maximized the opportunity to attract underrepresented populations to the college faculty. In 2014 and 2015, all new probationary faculty arrived with terminal degrees completed. The new faculty brought substantially increased capacity and interests in research and creative activity. To support new faculty, orientation and mentoring programs were implemented. The college also provided training and capacity development for department chairs and the college's associate dean.
 - Extensive work with department chairs to better manage the college curriculum and especially the campus-wide service components of the curriculum. Departments significantly altered their offerings to support a new General Education program. We developed better enrollment prediction and enrollment management strategies for the two required core courses in English and in Communication Studies.
 - Advocacy for and management of investments in college facilities, including multi-year HVAC renovations for Performing Arts Center; an initiative to develop a ten-year facilities plan for the Performing Arts Center; major upgrades to the Mass Communication broadcasting studio; renovation of the Psychology neuroscience lab; development of a vision to "recycle" aging arts studios; and investments in classroom renovations to support active learning.
 - Other curriculum initiatives included: re-instatement of the writing across the curriculum program; investment in a campus-wide communications apprehension program; and establishing permanent funding for the Common Book program.

Increased visibility in the community for college arts programming is very important to building a liberal arts identity. Arts departments coordinated their public events for greater visibility. The college funded an initiative by the Music Department to re-establish touring by music ensembles. The Theatre and Dance Department worked to establish closer ties to the Great River Shakespeare Festival, a summer festival that uses the Winona State Performing Arts Center. I led an initiative to better manage Winona State's art collection, including creating an adequate art storage facility, hiring a part-time gallery director, and clarifying policies around art acquisition.

Major emphasis on expanding the international emphasis of the curriculum. Faculty added to language instruction and enrollments increased. There was a 50% increase in study abroad within the college. The Spanish faculty worked to re-establish a historic link with the Argentine public education system, which was established in the late nineteenth century by Winona Normal School graduates. The foreign language program added international visitors to its faculty, including a Fulbright from Argentina. A faculty member in English was awarded a Fulbright in Japan.

- 2007-2010, New Zealand Ministry of Fisheries, Chief Economist
Recruited for fixed term role on senior leadership team to define role of socioeconomics within the ministry. Major initiatives included:
 - Design of an economic impact assessment process for regulatory initiatives that is economically rigorous and legally defensible.
 - Re-focus of contracting for socioeconomic research towards a competitive model that anticipates future ministry socioeconomic issues.
 - Re-design of the annual deemed value setting process that incorporates economic principles and responds to fishery-specific management objectives.
 - Leadership on recreational fisheries research that led to a national recreational survey.
 - Leadership in conceptualizing the role of commercial fisheries self-governance in ministry policy.
- 2006-2007, Indiana-Purdue Fort Wayne, Professor of Economics and Department Chair
- 1984-2006, University of Maine. Professor of Economics, 1994-2006; Associate/Assistant Professor, 1984-1994; also Cooperating Professor of Marine Sciences
 - Very broad teaching experience, including large introductory courses, masters-level graduate courses, teaching on a statewide interactive television network, and contributions to the sophomore honors sequence. Areas taught included principles of economics, antitrust and regulation, history of thought, mathematical economics, graduate microeconomics, undergraduate and graduate econometrics, and graduate public finance.
 - Research specialization in fisheries economics and fisheries management.
 - Extensive public service role in national and international fisheries policies and in state-level economic policy. See below for detailed research and public service accomplishments.

Two terms as chair of the Economics Department, 1997-1999 and 2005-2006. During first term, department initiated new B.A. and M.A. degrees in Financial Economics, and increased credit hour enrollments by 50%.

As Associate Dean of the Graduate School, 1987-89, directed the M.A. in Liberal Studies and Individualized Ph.D. programs and coordinated multi-disciplinary Ph.D. programs in Biological Sciences and Nutrition Sciences.

PROFESSIONAL HONORS AND ACTIVITIES

President, International Institute for Fisheries Economics and Trade, 2012-2014; President-Elect, 2010-2012.

President, North American Association of Fisheries Economists, 2005-2007; President-Elect, 2003-2005.

Visiting Research Fellow, CSIRO, Australia, 2003, for research on water resource management.

Fulbright Fellow, Visiting Professor, 2002-2003, University of the Philippines in the Visayas, for research on Philippine fisheries management.

Outstanding Faculty Member Award, University of Maine College of Liberal Arts and Sciences, 2002.

Fulbright Fellow, University of Iceland, Fall 1996, for research on Icelandic fisheries management.

Research Fellow, National Marine Fisheries Service, Juneau, Summer 1995.

President, University of Maine Faculty Senate, 1995-96, President-Elect 1994-95.

Research Fellow, National Marine Fisheries Service, Honolulu Laboratory, Summer 1992 and Summer 1993.

Founding Editor, *Maine Policy Review*, 1991-1995. Published by Margaret Chase Smith Center for Public Policy, University of Maine. Editorial Board, 1996-2006.

Consumer Member, Maine Milk Commission, 1985-88. Commission sets minimum wholesale and retail prices for Maine milk.

ACADEMIC TRAINING

Ph.D. (Economics), University of Wisconsin-Madison, 1983. Dissertation Topic: *Some Economic Issues in the Management of Maine's Shellfish Resources*. (Major Professor: Michael Rothschild)

EDITED BOOK AND EDITED JOURNAL ISSUE

J. Boncoeur, R. Townsend and J. R. Wilson. 2013. *Canadian Journal of Agricultural Economics*. Special Issue: Marine Resource Management Issues in the 21st Century. Includes J. Boncoeur, R. Townsend and J. R. Wilson, "Applied Economic Analysis of Marine Resource Management Issues in the 21st Century," pp. 141-144.

R. Townsend, R. Shotton, and H. Uchida. 2008. *Case Studies in Fisheries Self-governance*. Rome: FAO Fisheries Technical Paper 504. 451 pp. Includes R. Townsend and R. Shotton, "Fisheries Governance: New Directions in Fisheries Management," pp. 1-19.

PUBLISHED PAPERS

- R. E. Townsend. 2010. "Transactions Costs as an Obstacle to Fisheries Self-governance in New Zealand." *Australian Journal of Agricultural and Resource Economics*, 54: 301–320.
- S. Pascoe, J. Innes, D. Holland, M. Fina, O. Thébaud, R. Townsend, J. Sanchirico, R. Arnason, C. Wilcox and T. Hutton. 2010. "Use of Incentive-Based Management Systems to Limit Bycatch and Discarding." *International Review of Environmental and Resource Economics*, 4 (2): 123-161.
- R. E. Townsend, J. McColl, and M. D. Young. 2006. "Design Principles for Individual Transferable Quotas." *Marine Policy*, 30:131-141.
- R. E. Townsend and M. D. Young. 2005. "Evergreen Leasing of Aquaculture Sites." *Marine Resource Economics*, 20: 203-210.
- R.E. Townsend, S. G. Pooley, and R. Clarke. 2003. "Evidence on Producer Bargaining in the Northwestern Hawaiian Islands Lobster Fishery." *Marine Resource Economics*, 18: 195-203.
- R. E. Townsend. 1990 (reprinted 2001). "Entry Restrictions in the Fishery: A Survey of the Evidence." *Land Economics*, 66: 359-378. Reprinted in L. G. Anderson (ed.). 2001. *Fisheries Economics: A Collection of Readings*, Ashgate Publishing.
- R. E. Townsend. 1998. "Reply to Brent [1998]." *Journal of Research in Rural Education*, 14 (3): 184-185.
- R. E. Townsend. 1998. "Beyond ITQ's: Property Rights as a Management Tool." *Fisheries Research*, 37: 203-210.
- R. E. Townsend and S. G. Pooley. 1996. "Corporate Management of the Northwestern Hawaiian Islands Lobster Fishery." *Ocean and Coastal Management*, 28:63-83.
- R. E. Townsend. 1995. "Transferable Dynamic Stock Rights." *Marine Policy*, 19: 153-158.
- R. E. Townsend. 1995. "Fisheries Self-governance: Corporate or Cooperative Structures?" *Marine Policy*, 19: 39-45. R. E. Townsend and S. G. Pooley. 1995. "Fractional Licenses: An Alternative to License Buy-backs." *Land Economics*, 71 (1):141-143.
- R. E. Townsend and S. G. Pooley. 1994. "Effort Reduction under Limited Entry: Attrition versus Fractional Licenses in the Hawaii Longline Fleet." *North American Journal of Fisheries Management*, 14: 297-306.
- H. Cheng and R. E. Townsend. 1993. "Potential Impact of Seasonal Closures in the U.S. Lobster Fishery." *Marine Resource Economics*, 8: 101-117.
- R. E. Townsend. 1992. "A Fractional Licensing Program for Fisheries." *Land Economics*, 68:185-190.
- H. Cheng, G. Criner, and R. Townsend. 1991. "International Lobster Supply: Benefits of Canadian Seasonality." *Marine Policy*, 15: 363-369.
- J. Wilson, J. French, P. Kleban, S. McKay, and R. Townsend. 1991. "Chaotic Dynamics in a Multiple Species Fishery: A Model of Community Predation." *Ecological Modelling*, 58:303-322.
- J. Wilson, R. Townsend, P. Kleban, S. McKay, and J. French. 1990. "Managing Unpredictable Resources: Traditional Policies Applied to Chaotic Populations." *Ocean and Shoreline Management*, 13:179-197.
- R. E. Townsend. 1986. "Evidence from Controlled Harvests for Potential Economic Benefits

- from Management of Soft-shell Clams (*Mya arenaria*).” *North American Journal of Fisheries Management*, 6:592-595.
- R. E. Townsend. 1986. "A Critique of Models of the American Lobster Fishery." *Journal of Environmental Economics and Management*, 13:277-291.
- R. E. Townsend. 1985. "The Right to Fish as an External Benefit of Open Access." *Canadian Journal of Fisheries and Aquatic Sciences*, 42:2050-2053.
- R. E. Townsend. 1985. "An Economic Evaluation of Restricted Entry in Maine's Soft-Shell Clam Industry." *North American Journal of Fisheries Management*, 5:57-64.

PROCEEDINGS, REVIEWS, BOOK CHAPTERS AND TRADE JOURNALS

- R. E. Townsend. 2010. "Corporate Governance of Jointly-Owned Fisheries Resource Rights." In R. Q. Grafton, R. Hilborn, D. Squires, and M. Williams (eds.) *Handbook of Marine Fisheries Conservation and Management*, Oxford University Press, pp. 520-531.
- R. E. Townsend. 2009. "Review of *Hooked: Pirates, Poaching, and the Perfect Fish* by G. Bruce Knecht." *Marine Resource Economics*, 24: 205-206.
- S. Walker and R. E. Townsend. 2008. "Economic Analysis of Deemed Values." Proceedings of 2008 IIFET Conference, Nha Trang, Vietnam, July 2008.
- R. E. Townsend. 2006. "Review of *Managing Fish: Ten Case Studies from Canada's Pacific Coast* by Laura Jones and Miriam Bixby." *Marine Resource Economics*, 21: 331-332.
- R. E. Townsend. 2004 "Producer Organizations and Agreements in Fisheries: Integrating Regulation and Coasian Bargaining." In D. Leal (ed.) *Evolving Property Rights in Marine Fisheries*, pp. 127-148.
- R.E. Townsend. 2004. "Evergreen Leasing for Aquaculture Sites." *Aquaculture*, 30 (3): 20-21.
- R.E. Townsend. 2004. "Evergreen Leasing of Aquaculture Sites." *New Zealand Seafood*, 12 (2): 43.
- R. E. Townsend. 2004. "Economics of Fisheries Management in the Philippines." In Department of Agriculture, Bureau of Fisheries and Aquatic Resources (ed.) In *Turbulent Seas: The Status of Philippine Marine Resources*, pp. 127-130.
- R. E. Townsend. 2003 "Book Review of: *Unfinished Business New Zealand's Experience with Rights-Based Fisheries Management*, by Bjørn Hersoug *Marine Resource Economics*, 18: 373-375.
- R. E. Townsend. 2002. "The Role of Coasian Bargaining in Efficient Fisheries Management." Proceedings of the IFFET 2002 Conference, Wellington, NZ.
- R. E. Townsend. 2001. "Producer Cooperatives: Integrating Regulation and Coasian Bargaining." Proceedings, North American Association of Fishery Economists, New Orleans.
- R. E. Townsend. 2000. "Why Have Economists Overlooked Corporate Governance of Fisheries?" In A. Hatcher and K. Robinson (eds.) *Management Institutions and Governance Systems in European Fisheries*, Univ. of Portsmouth, UK, pp. 7-19.
- R. E. Townsend. 1998. "Application of Transferable Dynamic Stock Rights in the New England Scallop Fishery." In A. Eide and T. Vassdal (eds.), *Proceedings of the Ninth Biennial Conference of the IIFET*, Vol. 2: 620-626.
- R. E. Townsend. 1997. "Byggdakovoti i Alaska [Community Quotas in Alaska]" (Translated into Icelandic by N. Einarsson). *Stafnbui*, 5: 22-27.

- S. G. Pooley and R. E. Townsend. 1998. "A Community Corporation Approach to Management of Marine Fisheries: With Some Potential Applications to Hawaii." In J. A. Baden and D. S. Noonan (eds.), *Managing the Commons* (2nd ed.), Indiana University, pp. 154-164.
- R. E. Townsend. 1997. "Fisheries Management Implications of Alaskan Community Development Quotas." In G. Pálsson and G. Pétursdóttir (eds.) *Social Implications of Quota Systems in Fisheries*, Copenhagen: Nordic Council of Ministers, pp. 279-296.
- R. E. Townsend. 1997. "Corporate Management of Fisheries." In J. Boreman, B. Nakashima, J. Wilson, and R. Kendall (eds.) *Northwest Atlantic Groundfish: Management Alternatives for Sustainable Fisheries*, American Fisheries Society, pp. 195-202.
- A. T. Charles and R. E. Townsend. 1997. "User Rights in Fishing." In J. Boreman, B. Nakashima, J. Wilson, and R. Kendall (eds.) *Northwest Atlantic Groundfish: Management Alternatives for Sustainable Fisheries*, American Fisheries Society, pp. 177-184.
- R. E. Townsend. 1996. "Fisheries Management Implications of Alaskan Community Development Quotas." Working Paper 96:11, Institute for Economic Studies, University of Iceland.
- R. E. Townsend and S. G. Pooley. 1995. "Distributed Governance in Fisheries." In S. Hanna and M. Munisinghe (eds.) *Property Rights and the Environment: Social and Ecological Issues*, pp. 47-58. Washington, D.C.: World Bank.
- L. Hudson, S. Seguino, and R. Townsend. 1995. "Electric Rate Adjustment Mechanism: Why It Fizzled." *Electricity Journal*, 8 (October): 74-83.
- R. E. Townsend. 1995. "Economic Assessment of Impacts of Environmental Change on Shellfish Resources." In C. Colgan (ed.) *Sustaining Coastal Resources: Economics and the Natural Sciences*, pp. 131-143. Portland, ME: Edmund S. Muskie Institute of Public Affairs, University of Southern Maine.
- R. E. Townsend and S. G. Pooley. 1995. "Distributed Governance in the Northwestern Hawaiian Islands Lobster Fishery." In S. Hanna and M. Munisinghe (eds.) *Property Rights in Social and Ecological Context: Case Studies and Design Applications*, pp. 33-39. Washington, D.C.: World Bank.
- H. Cheng and R. Townsend. 1992. "The U. S. Lobster Market and Seasonal Ex-vessel Price Response." Maine Agricultural Experiment Station Miscellaneous Report 372, 14 pp.
- R. E. Townsend. 1991. "Review of *Canadian Oceans Policy*." *American Review of Canadian Studies*, 21: 500-501.
- J. Wilson, J. French, P. Kleban, S. McKay, N. Roy, and R. Townsend. 1991. "Economic and Biological Benefits of Interspecies Switching in a Simulated Chaotic Fishery." In J.-R. Durand, J. Lemoale and J. Weber (eds.) *Symposium Internationale: La recherche face la Peches Artisanale*, Montpellier, France, 1989, vol. II: 789-802.
- J. Wilson and R. Townsend. 1990. "Fisheries Transactions Costs and the Free Trade Agreement." In W. Milberg and P. Bartholomew (eds.) *Prospects for Canadian-United States Economic Relations under Free Trade*, JAI Press, pp. 145-158.
- J. Wilson, P. Kleban, S. McKay, and R. Townsend. 1991. "Bioeconomic Management of Chaotic Fisheries Resources." *Proceedings, ICES Symposium on Multispecies Models Relevant to Management of Living Resources*, ICES Marine Science Symposium, 193: 287-300.
- R. E. Townsend and J. Wilson. 1987. "An Economic View of the Tragedy of the Commons." In J. Acheson and B. McCay (eds.) *The Question of the Commons*, Univ. of Arizona.
- R. E. Townsend. 1987. "Review of Economic Resurgence and the Constitutional Agenda: The Case of the East Coast Fisheries." *American Review of Canadian Studies*, XVII: 339-340.

REPORTS, TESTIMONY, AND GOVERNMENT ADVICE

- R. E. Townsend. 2010. Affidavit in *Ministry of Fisheries v. Aurora Fisheries Limited, Kanai Fisheries Company Limited, Akira Hozumi, Koji Matsudate, Yuji Kikuchi and Makoto Kudo*. Wellington District Court.
- R. E. Townsend and S. Walker. 2009. "Initial Policy Proposal: Review of Deemed Value Rates for Selected Fish Stocks for October 2009 Sustainability Round" and "Final Advice Papers: Review of Deemed Value Rates for Selected Fish Stocks for October 2009 Sustainability Round." Advice to Minister of Fisheries for changes to deemed values for 109 stocks.
- R. E. Townsend and others. 2009. "Report of Workshop on Sampling Methods for Recreational Fisheries." ICES Workshop WKSMTF report. Contributed section on New Zealand.
- R. E. Townsend and S. Walker. 2009. "Initial Policy Proposal: Review of Deemed Value Rates for Selected Fish Stocks for April 2009 Sustainability Round" and "Final Advice Papers: Review of Deemed Value Rates for Selected Fish Stocks for April 2009 Sustainability Round." Advice to Minister of Fisheries for changes to deemed values for 91 stocks.
- R. E. Townsend and N. Wyatt. 2009. "Discussion Paper: Four Key Obstacles to Greater Commercial Self-Governance in New Zealand Fisheries Under Current Legislation." Prepared for New Zealand Ministry of Fisheries.
- R. E. Townsend and S. Walker. 2008. "Initial Policy Proposal: Review of Deemed Value Rates for Selected Fish Stocks for October 2008 Sustainability Round" and "Final Advice Papers: Review of Deemed Value Rates for Selected Fish Stocks for October 2008 Sustainability Round." Advice to Minister of Fisheries for changes to deemed values for 27 stocks.
- R. E. Townsend. 2009. Affidavit in *Ministry of Fisheries v. Dae Geum Kim, Se Hun Pyon, Chi Yeong No, Il Gyun Chong, and Gap Joo Bae*. Wellington District Court.
- R. E. Townsend, S. Walker, and E. Rees. 2008. "Appendix Two: MFish Economic Impact Analysis. Hector's and Maui's Dolphin Threat Management Plan. Fisheries Measures Final Advice."
- R. E. Townsend. 2008. Affidavit in *Pacific Trawling Limited and Independent Fisheries Limited v. Ministry of Fisheries*. High Court, Napier, New Zealand.
- R. E. Townsend, D. Georgianna, J. Dirlam, and C. Williams. 2006. "The Flexibility of Fresh Groundfish and Herring Processing in New England." Report to National Marine Fisheries Service.
- R. E. Townsend. 2003. "What Lies Beyond QMS?" Report prepared for New Zealand Ministry of Fisheries.
- R. E. Townsend and F. Ackerman. 2002. "An Analysis of Competition in Collection and Disposal of Solid Waste in Maine." Report for Maine Attorney General.
- Maine Aquaculture Innovation Center (R. E. Townsend, P. I.). 2000. "Study of Northwestern Hawaiian Islands Lobster Fishery Discards." National Marine Fisheries Service, Southwest Region, Admin. Report AR-SWR-00-01. 84 pp. plus appendix.
- R. E. Townsend and H. Cheng. 1999. "Design Issues in a Transferable Input Management System." Report for National Marine Fisheries Service Award #NA66FD0013. 88 pp.
- R. E. Townsend. 1998. "Incentives for Age of Capture under Alternative ITQ Programs in the Atlantic Scallop Fishery." Final report for NMFS Award #NA66FD0025. 149 pp.
- R. E. Townsend. 1996. "An Economic Assessment of Alaskan Community Development Quotas." Prepared for National Marine Fisheries Service, Juneau, AK. 59 pp.

- S. Ballard, J. Faulkner, C. Morris, B. J. Nicoletti, and R. Townsend. 1993. "The Electric Lifeline Program: Process Evaluation." Prepared for Central Maine Power.
- R. E. Townsend and D. Georgianna. 1993. "Maine Sardine Processing Industry." Prepared for National Marine Fisheries Service.
- R. Clime and R. E. Townsend. 1993. "An Evaluation of Strategies to Restore *Mya arenaria* Production in Maine." Report to Maine Aquaculture Innovation Center.

PUBLISHED WORK FOR NON-PROFESSIONAL AUDIENCES

- R. E. Townsend. 2013. "More Light than Heat." *Maine Policy Review* 21 (2): 10-11.
- R. E. Townsend. 2004. "Divvying up the New Crown Monopolies." *Bangor Daily News*, Feb. 12, 2004, p. A9.
- R. E. Townsend. 2003. "Fix School Financing Now." *Bangor Daily News*, Oct. 3, 2003.
- R. E. Townsend. 2003. "Redefining UMaine's Library." *Bangor Daily News*, Aug. 20, 2003.
- R. E. Townsend. 1999. "School Funding Formula Doesn't Add Up." *Maine Sunday Telegram*, April 18, 1999, pp. 1C + 6C.
- P. Dow and R. Townsend. 1998. "Reforming Maine's Education Funding Process." *Maine Policy Review*, 7 (1): 10-21.
- R. E. Townsend. 1998. "Insure Adequate K-12 Financing", "Rethink the School Funding Formula", and "Homestead Tax Exemption Touted." *Bangor Daily News*, March 17-19, 1998 (3-part series).
- R. E. Townsend. 1996. "Options for Managing Maine's Fisheries." *Maine Policy Review*, July 1996, 29-35.
- R. E. Townsend. 1993. "Telecommunications: Competition, Regulation, or Regulated Competition?" *Focus on Public Policy*, October 1993, 4 (1):1 ff.
- S. Ballard, J. Faulkner, C. Morris, B. J. Nicoletti, and R. Townsend. 1993. "Electric Lifeline Policy in Maine." *Maine Policy Review*, September 1993, 51-63.
- R. E. Townsend. 1993. "Advocacy and the Public Advocate." *Maine Policy Review*, September 1993, 90-91.
- R. E. Townsend. 1993. "Three Views on Utility-generated Externalities: Are Adders Right for Maine?" *Maine Policy Review*, April 1993, 9-13.
- R. E. Townsend. 1993. "Maine's 'Other' Commissions: The Maine Milk Commission." *Maine Policy Review*, April 1993, 82-83.
- R. E. Townsend. 1992. "Commentary: Social Justice, the Price of Potatoes, and 'Phase-ins'." *Maine Policy Review*, June 1992, 82-83.
- R. E. Townsend. 1992. "International Lobster Trade Benefits Both Sides of Maine/Canada Border", *Bar Harbor Times*, September 3, 1992, p. C14.
- R. E. Townsend. 1991. "Commentary: Environmental Use Taxes?" *Maine Policy Review*, December 1991, 150-151.
- R. E. Townsend. 1991. "Limited Entry: What Do the Terms Mean?", "Limited Entry for Groundfish: Can It Work in New England?", and "A New Idea: Issue Partial Licenses." *Commercial Fisheries News*, May 1991, pp. 10B-11B.
- R. E. Townsend. 1987. "Oakhurst's Interest vs. the Interests of Maine's Dairy Industry." *Bangor Daily News*, January 7, 1987, p. 15.

FUNDED RESEARCH

Unless otherwise indicated, Ralph Townsend was listed as the principal investigator (PI) on the following grants. Dollar figures include overhead.

- 2002-2006. Maine Sea Grant program for research on management of soft-shell clams in Casco Bay, \$50,000.
- 2004-05. Canadian-American Center Graduate Assistantship. \$9010 plus tuition.
2003. Visiting Research Fellow. Commonwealth Science and Industry Research Organization (Australia), \$10,000.
- 2002-2003. Fulbright Fellow, University of the Philippines in the Visayas, \$30,000 (approx.)
- 2002-2003. Pollock Conservation Research Center. Conference on cooperative management of fisheries. Funded through University of Alaska for \$25,000, Gunnar Knapp as PI, with subcontract to University of Maine.
- 2001-2002. Office of the Maine Attorney General. Analysis of competition in Maine's solid waste industry, \$40,000.
- 2000-2002. "Governor's Marine Fellowship", Maine Department of Marine Resources and Maine Community Foundation, \$18,828.
- 1999-2000. "Study of Northwestern Hawaiian Islands Lobster Fishery Discards", NMFS Southwest Region, Honolulu, HI for \$81,000. (Through Maine Aquaculture Innovation Center.)
- 1997-2001. "Case Studies in Co-management of Marine Fisheries", Maine-New Hampshire Sea Grant, \$238,183. (J. Wilson as PI, R. Townsend as Associate PI.)
- 1996-98. "Design Issues in a Transferable Input Management System for the New England Groundfishery", NMFS, Saltonstall-Kennedy program, for \$59,343.
- 1996-97. "Incentives for Age of Capture under Alternative ITQ Programs in the Atlantic Scallop Fishery", NMFS, Saltonstall-Kennedy program, for \$48,480.
1996. Fulbright Fellow, University of Iceland, for research on Icelandic fisheries management, \$15,000 (approx.)
- 1992-95. Maine-New Hampshire Sea Grant Program for research on new approaches to fisheries management, \$71,238. (Co-PI with A. Rieser.)
- 1992-95. National Marine Fisheries Service for research on markets for lobsters. (Three-year contract awarded for \$400,000 to four universities, with J. Wilson as PI.)
1992. Central Maine Power Company for evaluation of Electric Lifeline Program. (Approx. \$40,000 awarded through the Margaret Chase Smith Center for Public Policy.)
- 1991-95. Public Regulation and the Environment Project. (This project had external funding of approximately \$90,000 per year, with S. Ballard, director of Margaret Chase Smith Center, as PI. Townsend was the faculty resource for project. Funded by Central Maine Power, NYNEX, Bangor Hydro, Northern Utilities, and King Foundation.)
1989. Central Maine Power contract for evaluation of energy conservation programs, \$7000.
- 1987-94. Maine-New Hampshire Sea Grant Program for research on simulation of complex fisheries resources. Approximately \$200,000, J. Wilson as PI.

FISHERIES ADVISORY EXPERIENCE

National Marine Fisheries Service, 2004. Member of economics review panel for Gulf of Mexico/South Atlantic shrimp business plan.
Coastal Resource Management Project, Cebu, Philippines. 2003. Contributor to volume on fisheries management in the Philippines.
New England herring industry, 2001-2002. Development of fishery management plan proposal.
New England Fisheries Management Council, member of Social Science Advisory Committee, 1998-2002. Chair, 2001-2002.
National Marine Fisheries Service, 2000-2001. Analysis of discards in Northwestern Hawaiian Islands lobster fishery.
National Marine Fisheries Service, 1997. Member of economics review panel on Gulf of Mexico red snapper management.
Western Pacific Fishery Management Council, 1996. Bottomfish management plan review.
Maine Aquaculture Innovation Center, 1993. Assessment of clam flat restoration.
National Marine Fisheries Service, 1992-93. Description of herring processing sector.
Maine State Planning Office, 1985. Preparation of state presentation at International Trade Commission hearings on Canadian groundfish imports.
U. S. Department of State, 1983. Preparation of case in Georges Bank Boundary dispute.

PUBLIC SERVICE ACTIVITIES

Cited in Fort Wayne *Journal Gazette*, "Eliminating coin a centsitive issue." October 29, 2006.
Television interview on demographics and 300 million population, Ch. 21, Fort Wayne, October 17, 2006.
Television interview on gasoline prices, Ch. 21, Fort Wayne, September 15, 2006.
Analysis of liquor taxation cited in editorial, *Bangor Daily News*, January 24, 2004.
Television interview, Ch. 2, Bangor, ME on electric deregulation, February 16, 2001.
Presentation, "K-12 Funding", at Maine Center on Economic Priorities, Augusta, ME, January 15, 1999 and February 5, 1999.
Presentation to Senator Murray on Maine's K-12 funding, January 11, 1999.
Newspaper interview, *Maine Sunday Telegram*, on K-12 funding, March 29, 1998, p. 1 ff.
Television interview, Ch. 7, Bangor, ME, March 19, 1998, on low gas prices.
Radio interview, Maine Public Radio, February 3, 1998, on Maine tax policy.
Presentation to Maine School Funding Committee, Nov. 17, 1997.
Presentation at Maine Fisherman's Forum, "Soft-shell Clam Markets", February 27, 1997.
Presentation on Maine K-12 education funding to Sen. Cathcart and Rep. Baker, April 24, 1997.
Radio interview, KISS 94.5, March 11, 1997 on tax rankings.
Morganbladid (Reykjavik newspaper) interview on fisheries management, January 8, 1997.
Newspaper panel, *Maine Sunday Telegram*. "Economists Pan GOP Candidates' Plans". May 29, 1994 p. C1.

SELECTED PRESENTATIONS

- “Self-governance: Lessons from New Zealand.” Workshop on Bioeconomics and the Role of Government. Queenscliff, Victoria, Australia, February 24, 2015.
- “Towards Economic Concepts of Self-governance.” CSIRO, Hobart, Australia, Feb. 25, 2015.
- “Deemed Values, Transactions Costs, Allowance Reserves, and the Marginal Cost of Overfishing.” Institute for Marine and Antarctic Research, Hobart, Tasmania, Australia, February 26, 2015.
- “Conceptual Obstacles in the Transition from Regulatory Rights to Property Rights.” Invited lecture in honor of Professor Arni Vilhjalmsson, University of Iceland, October 14, 2013.
- “Regulatory Rights versus Property Rights.” North American Association of Fisheries Economists, May 24, 2013, Tampa, FL.
- “New Zealand and ITQs: What Lies Beyond World-leading?” Invited plenary presentation, New Zealand Agricultural and Resource Economics Society Meetings, Nelson, New Zealand, August 28-29, 2008.
- “Economic Analysis of Cost Recovery And Rent Collection In Fisheries: A Dog’s Breakfast.” 2008 IIFET Conference, Nha Trang, Vietnam, July 22-25, 2008.
- “Transactions Costs and Fisheries Self-Governance in New Zealand.” ESAM08 (Australian Meeting of Econometric Society), Wellington, New Zealand, July 9-11, 2008.
- “Design Principles for ITQs: How is New Zealand Doing?” Lincoln University, Lincoln, New Zealand, November 27, 2007.
- Presidential Address, North American Association of Fisheries Economists, March 28-30, 2007, Merida, Mexico.
- “Beyond Dedicated Access Privileges: Increasing the Role of Private Incentives in Efficient Fisheries Management.” AAAS Meeting, San Francisco, February 15-19, 2007.
- “The Offshore Scallop Fishery: ITQs and Self-governance .” University of Washington, Seattle, Washington, November 5-7, 2006. “Beyond ITQs: Transactions Costs and Self-governance in New Zealand.” North American Association of Fisheries Economists, Vancouver, Canada, May 25-27, 2005.
- “Can Australia Improve Its Institutions for Water Management? Do Fish Swim?” July 3, 2003. Commonwealth Science and Industry Research Organization, Adelaide.
- “Northwestern Hawaiian Islands Lobster Hui.” Workshop on Fisheries Co-ops and Beyond, Anchorage, June 23, 2003. “Beyond ‘Cap-and-trade’ Regulation of Fisheries: Self-management.” Australian Agricultural and Resource Economics Society, Adelaide chapter, June 4, 2003.
- “Evergreen Operating Contracts as a Complementary Institution for Market-based Management.” North American Association of Fisheries Economists Conference, Williamsburg, May 6, 2003.
- “Private Management of Fisheries.” New Zealand Ministry of Fisheries, Wellington, April 10, 2003.
- “Economics and Fisheries Management in the Philippines.” Philippine Bureau of Fisheries and Aquatic Resources, January 24, 2003. Also presented at University of the Philippines in the Visayas, January 20, 2003.

SELECTED ACADEMIC AND UNIVERSITY SERVICE ACTIVITIES

Coordinator, Best Student Paper Award, North American Association of Fisheries Economists Conference, May 21-24, 2013, Tampa, FL.

Member, external Ph.D. thesis review committee, University of Tromsø, Norway, 2006.

Editorial Board, *Journal of Research in Rural Education*, 1999-2006.

Academic Council, College of Liberal Arts and Sciences. 2003-05.

Selection committee, Philippine-American Educational Foundation, for 2003 Fulbright Agriculture and Fisheries Modernization Act (AFMA) Fellowships.

Search Committee, University of Maine Murphy Chair in Business, 2000.

Council of Colleges/Faculty Senate member, 1987-1989 and 1994-95.

External review committee for new assistant professor position, University of Iceland, 1997.

Policy Advisory Committee, Sea Grant Program, 1987-90.

Vice-chair, University of Maine Budget Task Force, 1990.

Bureau of Public Administration Review Committee, 1990.

College of Social and Behavioral Sciences Curriculum Committee, 1989-1990.

Graduate Coordinator, Department of Economics, 1986-1989 and 1994-95

Sophomore Honors Course Committee, 1986; Lecturer in Sophomore Honors, 1987-1991.

GRADUATE STUDENT THESES/PROJECTS SUPERVISED

Kristin "Togue" Brawn. 2002. *An Examination of the Georges River Clam Management Program*. M.A. Thesis in Marine Policy

Patrick Dow. 1998. "Understanding Maine's Public School Funding Formula." M.A. project.

Lei Chen. 1998. *Estimation of Production Function for New England Groundfishery*. M.A. Thesis.

Susan Hunt. 1994. *A Study of the Effect of Medicare's Prospective Payment System (PPS) on Hospitals in Maine*. M.A. Thesis.

Mark Colca. 1993. "An Engineering-Economic Analysis of Residential Electric Space Heating Demand-Side Management Programs." M.A. Internship Project.

Pat Smith. 1992. *Social Justice and the Papal Social Encyclicals*. M.A. in Liberal Studies Thesis.

SELECTED OTHER PROFESSIONAL ACTIVITIES

Antitrust consultant: Maine Attorney General, 1987-2007; private law firms, 1992-2006; expert testimony on telecommunications antitrust issues, 1990; private price-fixing suit, 1983-4.

Electric and telecommunications regulatory consultant: 1987-92.

Health economics consultant: Maine Health Care Finance Commission 1986-87; Health Services Development Institute, 1986-87; Maine Health Care Finance Review Board, 1983-84.

Arbitrator, under Maine Agricultural Marketing and Bargaining Act, 1986-1989.

COMMUNITY ACTIVITIES

Organizing committee, Maine State Scholastic Chess Championships, 2001-05.

Chess tournament director, various K-12 tournaments, 1996-2005.

Hersey Retreat Board of Directors, 1998-2000. Interim chair, 1998-99.

Bradford Volunteer Fire Department, 1985-1998.

Wrote successful Community Development Block Grant (\$286,000) for road infrastructure improvement in Bradford, Maine, 1997.

School Administrative District 64 Board of Directors, 1994-1996, Vice-chair 1995-96.

Wrote successful grant application (\$25,000) for ball field for Bradford, Maine, 1994.