



Vitæ of Peter Anderson

Briefly

Peter Anderson is President of RecycleWorlds Consulting, Executive Director of the Center for a Competitive Waste Industry, and Project Director for the multi-state Plastic Redesign Project. He has been Senior Lecturer at the University of Wisconsin Department of Applied Economics on recycling systems, chairperson of the National Recycling Coalition Policy Workgroup and its Landfill Subcommittee and landfill consultant for the Grassroots Recycling Network. He has been a keynote panel speaker at the Environmental Protection Agency's national bioreactor conference, and a member of its peer review committee on landfill's responsibility for greenhouse gases and climate change. He has also prepared a major independent evaluation of landfill financial assurance for the California Integrated Waste Management Board and another on landfill gases contribution greenhouse gases for the EPA. Anderson is widely published and a frequent speaker at technical solid waste conferences.

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▣Background

Born, 1947, in Washington, D. C. area, and raised in New York City.

▣Education

Undergraduate degree from Cornell University with a baccalaureate in labor economics; masters of science degree in land resource economics and industrial organization in the solid waste industry from the University of Wisconsin-Madison.

▣Employment Career

▸Founded statewide public interest organization, Wisconsin's Environmental Decade in 1970 and led it, over the next 20 years, to become the largest and most effective group in the state, growing from 50 to 200,000 members and from an annual budget of \$20,000 to \$1.1 million. There he focused in first decade on energy policy and, the second, on recycling issues in the eighties.

▸Co-founded a full service recycling business, RecycleWorlds, in 1989 which purchases, processes and markets recyclable material for end users.

▸Lecturer for University of Wisconsin-Madison Consumer Sciences Department in 1989 and 1991 on the consumer movement.

▸Visiting Lecturer for University of Wisconsin-Madison Institute for Environmental Studies in 1990 on trends in environmental issues.

▸Senior Lecturer for University of Wisconsin Department of Agricultural Economics from 1990 - 1995 on recycling economics, a course which won an award for the most innovative course offering from the North American Association of Summer Sessions.

▸Presently, President of RecycleWorlds Consulting, Executive Director of the Center for a Competitive Waste Industry, and Project Director for the multi-state Plastic Redesign Project. RecycleWorlds Consulting provides consulting services to communities developing recycling programs, to businesses evaluating effects of recycling on their markets, and to state and national government agencies of recycling policies. As part of establishing consulting services, he has developed a comprehensive, state-of-the-art computer program, *RecycleWare*[™], which has received national recognition as the best collection analysis tool, for communities to use in evaluating the costs and waste characteristics of various curbside recycling programs; and another program, *WasteSort*[™], for communities and consultants to use in conducting waste composition analyses. The Center for a Competitive Waste Industry provides research to the public and clients on the current status of competition in the waste industry and recommendations for strategies to maintain competition.

☐Boards and Commissions

Associated Recyclers of Wisconsin Legislative Committee, Member
Citizens Utility Board, Board Member
Compost Recycling Network, Chairman
Legislative Council Recycling Committee
Legislative Council Solid Waste Committee
Dane County 2020 Transportation Commission, Member
Department of Natural Resources Advisory Committee on Municipal Recycling Grants, Member
Department of Consumer Protection Advisory Committee on Environmental Labeling, Member
Department of Natural Resources Advisory Group on Effective Recycling Program Criteria
Department of Natural Resources Advisory Group on PETE Recycling
Department of Natural Resources Technical Advisory Group on Leachate Collection Systems
Environmental Protection Agency Landfill Methane Inventory Workshop, Technical Task Force
Member
Legislative Council Utility Condemnation Committee, Member
Legislative Council Rate Setting Committee, Member
Madison City Council, Alderman
National Recycling Coalition Full Cost Allocation Subcommittee, Member
National Recycling Coalition, Board of Directors
National Recycling Coalition, Chairman, Policy Committee
National Recycling Coalition, Chairman, Landfill Group
United States Delegation to the Organization of Economic Cooperation and Development,
International Conference on Extended Producer Responsibility, Member
Wisconsin Council on Recycling Subcommittee on Construction & Demolition Debris, Member
Wisconsin State Radioactive Waste Review Board, Board Member

■ **Technical Publications**

“Bottle barrage won’t halt PET’s march,” *Waste News* (February 4, 2002).

“Can’t We All Just Get Along? Plastic Recyclers Say It’s Possible,” *BeverageWorld* (June 2001) (lead author, co-author, Donna Stusek)

“Compaction's Role in the Recycling Vehicle of the Future,” *Recycling Times* (July 11, 1995).

“Consolidation and Recycling,” *MSW Management* (June 2001) (lead author, co-authors Judi Gregory, Michael Jacobson, Gary Liss, Eric Lombardi and Peter Montague).

Day of Reckoning: Protecting California Taxpayers from the Looming Landfill Crisis. Center for a Competitive Waste Industry Monograph, 185 pages (2005).

“Debunking the Two Fleet Myth,” *Waste Age* (October 1995) (lead author, co-authors George Dreckmann and John Reindl).

“The Eastern Merger Story,” *Waste News* (September 6, 1999).

“Endgame! — Consolidation and Competition in the Solid Waste Industry,” *MSW Management/Elements 2000 Issue* (December 1999).

Everything You Wanted to Know About Measuring Recycling Effectiveness...But Were Afraid to Ask. RecycleWorlds Monograph, 8 pages (1993).

Everything You Wanted to Know About Newspaper Animal Bedding...But Were Afraid to Ask. RecycleWorlds Monograph, 14 pages (1990).

Everything You Wanted to Know About Waste Composition Studies...But Were Afraid to Ask. RecycleWorlds Monograph, 128 pages (1994).

From Beneath the Ground: Gases from Landfills Threaten Global Warming, Center for a Competitive Waste Industry Monograph, 99 pages (Upcoming in 2005).

“Glass Compaction: Defining the Possibilities,” *Resource Recycling* (May 1997).

“How to Measure Recycling Effectiveness,” *Recycling Coordinator* (December 1993).

“The Impact of Waste Industry Consolidation on Recycling,” *MSW Management* (June 2001) (lead author, co-authors, Joan Edwards, Eric Lombardi, Michael Garfield and Peter Montague).

“The Impact of Light Compaction on Curbside Recycling Collection,” *Resource Recycling* (May 1996).

“Improving the Efficiency of Curbside Recycling Collection,” *Resource Recycling* (April 1994).

“Is Composting Getting a Fair Shake in EPA Landfill Bioreactor Analysis?,” *BioCycle* (April 2001) (lead author, co-author, Michael Alexander).

“JOT' It Down: a Plastics Recycling Proposal,” *Wastelines* (November 1990).

“Keys to the Temple: A Contrarian Perspective on the Waste Industry’s Future,” *Solid Waste Digest* (January 2004).

“Making Waste Sorts Easy,” *MSW Management* (January 1996).

“Mergers in the Waste Industry: How Greater Route Densities Impact Collection Efficiency,” *MSW Management* (September/October 1999).

“Minimum Sustainable Price for Recycled PET,” *Beverage World* (June 2001) (lead author, co-author, Donna Sustek)

“Newspaper Recycling: the Animal Bedding Market,” *Resource Recycling* (March 1991).

“Newsprint Mills and Recyclers at the Crossroads,” *Recycling Times* (May 4, 1998).

“A New Way to Measure Recycling Effectiveness,” *Resource Recycling* (April 1993) (lead author, co-authors John Reindl and John Strasma).

“Owning and Operating a MRF: the Inherent Public and Private Economic Advantages,” *MSW Management* (May/June 1993) (lead author, co-author John Strasma).

“PET Beer: Overcoming Recycling Barriers,” *Beverage World* (June 2002).

“Plastics Next Frontier,” *Resource Recycling* (October 1993).

“Recycling Newspapers into Animal Bedding,” *Environmental Decisions* (December 1990).

“Plastic Bottle Project: Redesigning for Recycling,” *BioCycle* (July 1995) (lead author, co-authors Tom Rattray and Scott Kelly).

“The Role of Cities in Plastics Recycling,” *Environmental Decisions* (October 1990) (lead author, co-author Steven Brachman).

“Seeking a Solid Landing: Rethinking Current Landfill Regulation by Evaluating Alternative Disposal Methods,” *Environmental Protection Magazine* (March 2001) (co-author Clifford Case).

“Stopping Glass Contamination at the Source,” *Resource Recycling* (September 1998)(lead author, co-authors Richard Braddock and Kevin Hardie).

“Sorting through the 'garbage': a New Way to Measure Recycling Effectiveness,” *Resource Recycling* (April 1993) (lead author, co-authors John Reindl and John Strasma).

“Vertical Integration Comes to Recycling,” *Resource Recycling* (September 1994) (lead author, co-author Tom Rattray).

“What New York City Informs Us About Whom Recyclers Should Consider to Provide Service,” *BioCycle* (October 2004).

☐Invited Presentations

“Methods for Diverting Yard Waste.” Paper presented at the University of Wisconsin-Extension Engineering Department Recycling Conference, Madison, 1989.

“The Next Frontier for Plastics.” Paper presented at the National Recycling Congress, San Diego, 1990.

“Making Plastics Recycling Work for Cities.” Paper presented at the National League of Cities 67th Annual Congress, Houston, 1990.

“Developing Markets for Recycling.” Paper presented at a Manufacturing and Commerce Association Conference on Wisconsin's Solid Waste Debate, Madison, 1990.

“The Choice Between Bags and Bins in Curbside Collection Programs.” Paper presented at Fourth Annual Associated Recyclers of Wisconsin Conference, Stevens Point, 1991.

“Modeling Interactive Effects of Recycling and Disposal.” Paper and Computer Demonstration for the Fourteenth Annual Madison Waste Conference, Madison, 1991.

“Challenging Conventional Wisdom in Curbside Collection.” Paper for the Tenth National Recycling Congress, Milwaukee, 1991.

“Money Saving Collection Options.” Invited Paper for the Fifth Annual Associate Recyclers of Wisconsin Conference, Green Bay, 1992.

“Measuring Recycling Results.” Invited Paper for the Sixth Annual Association of Recyclers of Wisconsin Conference, “Making Recycling Work,” Oshkosh, 1993.

“New Paths for Efficient Collection of Recyclables,” Invited Paper presented at Extension Conference on Cost Effective Collection of Recyclables, Madison, 1993.

“New Ways to Evaluate Recycling.” Invited Paper for the World Recycling Conference, “Helping You Close the Loop,” Baltimore, 1993.

“New Innovations to Slash the Cost of Collecting Recyclables,” Invited Paper for the Solid Waste Association of North America 31st Annual International Solid Waste Exposition, San Jose 1993.

“Going Beyond the Limitations of Legislation,” Invited Paper to Wisconsin Consumer Packaging Council's Symposium and Planning Session, Madison, 1993.

“How to Characterize the Composition of Solid Waste,” Invited Paper to the Seventh Annual Association of Recyclers of Wisconsin, Recycling in Wisconsin: It's Working!, Eau Claire, 1994.

“A Contrarean View of Bag vs. Bin Based Recycling Systems,” Invited Paper to the Extension Conference on Cost-Effective Collection of Recyclables and Solid Waste, Madison, 1994.

“State Government's Role in Restructuring Plastics Recycling,” Invited Luncheon Speaker, Quarterly Meeting of the Northeast Recycling Council of the Council of State Governments, Philadelphia, 1994.

“Making Collection of Recyclables More Efficient,” Invited Paper, National Recycling Congress, “Jump Into the Mainstream,” Portland, 1994.

“How Plastic Bottle Redesign Will Improve Municipal Revenues,” Invited Paper, *BioCycle* 25th National Conference, Washington, D. C., 1995.

“How to Redesign Collection Systems” and “New Innovations in Plastics Recycling,” Invited Papers, Pennsylvania Recycling Conference “Recycling: Redesign for Success,” Harrisburg, 1995.

“Improved Plastic Market Prices Through Redesigns,” Invited Paper, Environmental Industry Associations *Waste Expo '95*, Chicago, 1995.

“New Ways to Improve Collection Efficiency,” Invited Paper, Illinois Recycling Association Conference “Expanding Horizons,” Chicago, 1995.

“Improving the Economics of Plastics Recycling,” Presentation, PennState National Satellite Downlink, *Plastics Recycling: Meeting the Demand*, 1995.

“Making Collection More Efficient,” Presentation, Associated Recyclers of Wisconsin, “Recycle: Catch the Wave,” Milwaukee, 1996.

“Light Compacting Recyclables,” Presentation, National Recycling Congress, “Revitalizing America’s Future,” Pittsburgh, 1996.

“Minimum Content Laws Today,” Presentation, Associated Recyclers of Wisconsin, “Bein’ Green,” Appleton, 1997.

“New Innovations in Curbside Collection,” Presentation, North Carolina Recycling Association, Asheville, 1997.

“Making Plastics Recycling Sustainable,” Invited Paper, National Recycling Congress “Recycling is Getting Hotter,” Albuquerque, 1998.

“What Consolidation in the Solid Waste Industry Means for Recycling,” Invited Paper, National Recycling Congress “Recycling is Getting Hotter,” Albuquerque, 1998.

“Cities and Improving Plastic Bottle Design for Recyclability,” Invited Paper, US Conference of Mayor’s Annual Summit, Denver, 1998.

“Plastic Beer Bottles: Working Together,” Invited Paper, Bev-Pak Americas ‘99, Fort Lauderdale, 1999.

“The Impact Solid Waste Industry Mergers on Recycling,” Invited Paper, Rose Institute for State and Local Government Conference on Managing Waste in Southern California, Los Angeles, 1999.

“Consolidation and Recycling,” Invited Paper, National Recycling Coalition, Cincinnati, 1999.

“Virgin Subsidies and Recycling,” Invited Paper, National Recycling Coalition, Cincinnati, 1999.

“Making Plastics Recycling Viable,” Recycling Council of Ontario, London, 1999.

“Recycler’s Concerns: a Marketing Headache or Technological Challenge,” Invited Paper, Pack Expo, Las Vegas, 1999.

“How Local Recycling Programs Can Work Constructively With the Brewery Industry in Order to Develop a Recycle-Friendly Plastic Beer Bottle,” Invited Paper, Nova-Pack Americas 2000, Orlando, 2000.

“Plastics — One Word, Many Issues,” Invited Paper, Associated Recyclers of Wisconsin and Solid Waste Association of North America Conference and Exposition, Wisconsin Dells, 2000.

“Addressing New Challenges in Plastics Recycling,” Invited Paper, Ohio Department of Natural Resources, 20th Anniversary Conference, Cleveland, 2000.

“Industry Consolidation in California,” Invited Paper, California Resource Recycling Coalition, Sacramento, 2000.

“How Virgin Material and Disposal Subsidies Impact Recycling,” Invited Paper, Recycling Association of Minnesota’s Forum on Subsidies for Material Use and Disposal, Minneapolis, 2000.

“The Impact of Consolidation on Expanded Recycling Goals,” Invited Paper, Minnesota Environmental Initiative’s Refocus on Waste Management, St. Paul, 2000.

“The Failure of Subtitle D Landfills and Composting New Opportunity,” Invited Paper, 31st Annual *BioCycle* National Conference on Composting & Organics Recycling ... UNLEASHING THE POWER, St. Paul, 2001.

“Consolidation and Recycling,” Invited Paper, California Resource Recycling Association 2001 Conference, Imagine a World Without Waste, Pasadena, 2001.

“What Are the Real Economics of PET Recycling,” Invited Paper, Plastics New’s Plastics Encounter, Atlanta, 2001.

“Bioreactors and Recycling,” Invited Paper, California Resource Recycling Association 2001 Conference, Imagine a World Without Waste, Pasadena, 2001.

“Landfills and Bioreactors,” Invited Paper, 20th Annual National Recycling Congress, 2001: A Recycling Odyssey, Seattle, 2002.

“The Future of Recycling and Landfilling, Keynote Speech, Colorado Recycling Association, Denver, 2002.

“Bioreactor Landfills: Point, Counterpoint,” Invited Paper for Plenary Session, U.S. Composting Council: Advances in Composting, Las Vegas, 2003.

“A Modest Proposal: How Research on Bioreactors Needs to be Improved,” Invited Paper for Plenary Session, EPA Workshop on Bioreactors, Arlington, 2003.

“Bioreactors in the Real World,” Invited Presenter to the Public Workshop on Bioreactors, California Integrated Waste Management Board, Sacramento, 2003.

“Methodological Issues in Determining Landfill Gas Contribution to Climate Change,” EPA Conference on Landfill Gas and Climate Change, Arlington, 2003.

“A New Protocol for Evaluating the Impact of Barrier Bottles on PET Recycling,” Invited Paper for the European Plastics News and Plastics and Rubber Weekly Conference on Barrier PET Packaging, Brussels, 2004.

“The Time for Post-Closure Care: Point, Counterpoint,” Invited Rebuttal to Waste Industry Proposal to Shorten Post-Closure Period, Wisconsin Department of Natural Resources Task Force, Madison, 2004.

“The Fallacies of Financial Assurance for MSW Landfills and Recommendations for Reform,” Invited Paper, Association of State and Territorial Solid Waste Management Officials Annual Meeting, Savannah, 2004.

“Recycling, Landfills and Financial Assurance,” Invited Paper, International Dialog on Proper Discard Management in the New Millennium, San Francisco, 2004.

“The Myths of Anti-Recycling Screeds,” Keynote Speaker, Partners for Sustainable Development: Recycling and Waste Reduction in Ohio, Aurora, Ohio, 2004.

“The Future of Recycling,” Plenary Speaker, California Resource Recovery Association: Looking Back, Moving Forward, The Big Picture, San Francisco, 2005.

☐Expert Testimony

National Solid Wastes Management Association v. Meyer, Case No. 94-C-0603-S, U.S.D.C. W.D. Wis., expert testimony on costs of recycling the factual conclusions of which were adopted by the trial court (December 1994).

☐Popular Publications

"Scrappy Says," newspaper recycling advice column for the *Madison Capital Times*

"Scrappy Says," television recycling advice feature for Madison CBS affiliate WISC-TV

☐Clients

American Family Insurance (analysis of need for solid waste facility)

American Plastics Council (characterization of plastic recycle stream)

California Integrated Waste Management Board (analysis of recycled plastic bottle performance)

Cartridge Savers (economic feasibility analysis for recycled toner cartridges)

Central Bottling Company (Israel Coca-Cola) (preliminary feasibility study of recycled content in PET bottles)

CityForest Corporation (fiber supply analysis)

City of Industry (CA) (analysis of need for transfer station)

City of Madison (WI) (economic analysis of collection alternatives)

City of Madison (WI) (analysis of compacting recycle vehicles for purchase)

City of Janesville(WI) (development of curbside recycling programs)

City of Seattle(WA) (advice on collection strategies)

Dane County(WI) (characterization of municipal waste stream and assessment of recycling effectiveness)

Dane County(WI) (follow-up characterization of municipal solid waste)

Environmental Protection Agency (national conference between industry and cities on recommendations for designing plastics for recyclability)

Environmental Protection Agency (national conference between confederation of states and industry to implement recommended designs for recyclability)

First Brand Corporation (economic analysis of bins versus bag receptacles)

Forest Products Laboratory (economic analysis of plastic/paper composites)

Glass Packaging Institute (research into factors related to glass breakage)

Grassroots Recycling Network (analysis of recyclability of PVC bottles)

Institute for Local Self Reliance (analysis of collection issues for the District of Columbia)

Institute for Local Self Reliance (advice on EPA Publication, Cutting the Waste Stream in Half)

Interlocken, Ltd. (development of waste minimization plan for 964 acre office park outside Boulder, Colorado)

Lake Area Concerned Citizens(WI) (analysis of need for landfill expansion)

Lands' End Direct Merchants (advise on packaging issues and corporate recycling effort)

Madison Area Technical College (advise on recycling curriculum)

Munz Apartments (development of apartment recycling program)

National Association for Plastic Container Recovery (collection of plastic with light compacting vehicles)

New York City Office of Public Advocate (competitive factors affecting carter industry)

New York State Office of Recycling Market Development (plastic recycling)

Pennsylvania Department of Environmental Protection (plastic recycling markets)

Placon Corporation (confidential study on recycling issue)

The Pleasant Company (advise on packaging issues)

- Portage County (analysis of success of past recycling and recommendations for future)
- Racemark International (development of plan to recycle automobile floor mats)
- Recycling Market Development Board (survey and analysis of small quantity plastics recycling programs)
- Recycling Market Development Board (survey of local government's buy recycle practices)
- Recycling Market Development Board (research to develop compatibles plastic caps)
- Recycling Market Development Board (waste composition analysis of 1-7 plastic programs)
- Recycling Market Development Board (field test of home storage of old newspapers during market downturns)
- Saint Paul Neighborhood Energy Consortium (analysis of recycle collection options and impact of lessening of competition on the prices charged for solid waste services)
- Saint Paul Neighborhood Energy Consortium (analysis of demonstration projects of different collection options)
- SC Johnson (analysis of feasibility of film recycling)
- Sierra Club California (analysis of adequacy of California landfill financial assurance rules)
- Solid Waste Association of North America (characterization of glass steam at various stages of collection and processing)
- Solid Waste Recovery Research Program (research on redesigning plastics closures for recyclability)
- Solid Waste Recovery Research Program (research on benefits of redesigned glass bottles to use micro- thin coating instead of pigmentation for coloration)
- Solid Waste Recovery Research Program (national conference between confederation of states and industry to implement recommended designs for recyclability)
- Solid Waste Recovery Research Program (research on the sources of and remedies for glass contamination)
- St. Paul Neighborhood Energy Consortium (analysis of strategies to reduce recycle collection costs)
- St. Paul Neighborhood Energy Consortium (analysis of impact of waste industry consolidation on the ability of the Twin Cities area to meet its recycling objectives)
- Total Compliance Management (investigation of impact of landfill acquisition on competition in California)
- Traex (research on recycled resin markets)

Utah Attorney General (research on competition in the medical waste industry)

W. T. Rogers Company (advise on landfill siting issues)

Wisconsin Department of Administration (report on new markets for secondary paper)

Wisconsin Department of Justice (expert court testimony on costs of recycling)

Wisconsin Department of Natural Resources (report on plastics markets)

Wisconsin Department of Natural Resources (analysis of collection strategies)

Wisconsin Department of Natural Resources (forecast of future market failures and development of variance rules)

Wisconsin Department of Natural Resources (analysis of the use of compaction in recycle collection)

Wisconsin Department of Natural Resources (development of compression molding processing for plastic tailings)

Wisconsin Department of Natural Resources (mid-course evaluation of recycling effectiveness)

Wisconsin Department of Transportation (development of rest area recycling program)

Wisconsin Department of Transportation (evaluation of effectiveness of wayside recycling program)

Wisconsin Department of Transportation (follow up study of recycling effectiveness at rest areas)

Wisconsin Department of Transportation (study of liter, its quantity and composition, on roadsides)

Wisconsin Department of Transportation (cooperative market analysis)

▣ Awards

Audubon Society

Capital Community Citizens Orchid

Center for Public Representation Outstanding Citizen

Environmental Protection Agency Outstanding Citizen

National Awards Council for Environmental Sustainability

Sierra Club

