

Paul Harten, Physical Scientist in EPA's National Risk Management Research Laboratory

Land and Materials Management Division

[Mailing Address](#)

harten.paul@epa.gov

Areas of Expertise:

- Emerging Nanomaterials
- Bayesian Networks
- Quantitative Structure-Activity Relationships (QSAR)
- Molecular Mechanics and Molecular Dynamics
- Agent Based Modeling
- Evolutionary Algorithms
- High Performance Computing, Parallel Programming, Cloud Computing
- Programming in Fortran, Basic, C, C++, and Java

Select Publications:

Ziegler, R., A. Brookes, K. Burch, A. Vega, A. Yuen, Gerry Laniak, E. McMahon, P. **Harten**, B. Subramanian, and W. Blake-Coleman. [EPA Scientific Knowledge Management Assessment and Needs](#). U.S. Environmental Protection Agency, Washington, DC, EPA/600/R-16/259 (2016).

Ziegler, R., A. Brookes, K. Burch, P. **Harten**, J. Kremer, G. Laniak, B. Subramanian, A. Vega, and A. Yuen, "U.S. EPA Digital Science: An Evolution," Fall Meeting of the American Geophysical Union," San Francisco, CA, December 14-18 (2015).

Harten, P.F., "[Program for Assisting the Replacement of Industrial Solvents – User Manual](#)," U.S. EPA Office of Research and Development, Washington, DC, EPA/600/R-13/277 (2014).

Martin, T., P.F. **Harten**, D. Young, E. Muratov, A. Golbraikh, H. Zhu, and A. Tropsha, "[Does Rational Selection of Training and Tests Sets Improve the Outcome of QSAR Modeling?](#)" Chemical Information and Modeling, Vol. 52, No. 10, 2570-2578 (2012).

Sikdar, S., D. Dengupta, and P.F. **Harten**, "[More on Aggregating Multiple Indicators into a Single Index for Sustainability Analyses](#)," Clean Technologies and Environmental Policy, Vol. 14, No. 5, 765-773 (2012).

Harten, P F. and G. Salama, G. PARIS II: [The Search For Cleaner Solvent Replacements for RCRA Chemicals](#). C. Simpson (ed.), CleanTech. Witter Publishing Company Incorporated, Flemington, NJ, 4(10):20-26, (2004).

View more research publications by [Paul Harten](#)

Education:

- Ph.D., University of Cincinnati, Cincinnati, OH; Physics, 1987
- M.S., University of Cincinnati; Physics, 1984
- B.S., University of Cincinnati; Physics, 1980
- B.A., University of Cincinnati; Mathematics, 1980

Professional Experience:Workgroup/Project Leads

- Principal Investigator for PARIS - EPA's Solvent Substitution Software Tool (Program for Assisting the Replacements of Industrial Solvents)

Committees and Board Memberships

- US EPA Environmental Modeling Community of Practice (2017)
- US EPA Cross-Agency Planning Committee for the Developing and Deploying Environmental Software (DDES) Fall Workshop at Research Triangle Park, NC (2015)
- US EPA Developing and Deploying Environmental Software Community of Practice (2014-2017)
- US EPA NRMRL Representative for High-End Scientific Computing Project Review Team (2009-2017)
- Peer reviewer for *Clean Technology and Environmental Policy*, *Computers & Chemical Engineering*, *Industrial & Engineering Chemistry Research*, *Journal of Cleaner Production*, and *Journal of Energy & Fuel*

[Science Matters: Meet EPA Scientist Paul Harten, Ph.D.](#)

[Science Matters: Chemical Toxicity Testing Going Digital](#)

[EPA Blog: PARIS III - EPA's Solvent Substitution Software Tool](#)

[Science in Action Fact Sheet: PARIS III - EPA's Solvent Substitution Software Tool \(Program for Assisting the Replacements of Industrial Solvents\)](#)