

FRED MILLAR, Ph.D
915 S. BUCHANAN ST. No. 29
ARLINGTON VA 22204
TEL: 703-979-9191 e-mail: fmillarfoe@gmail.com

Public interest and environmental safety advocate, national policy analyst and lobbyist, trade union strategic researcher, educator and consultant, based in Washington, D.C., with skills, technical expertise and national, local and international contacts in a wide range of issues and strategies. Recognized international analyst in nuclear waste storage and transportation and industrial chemical use, transportation and accident prevention, emergency planning and homeland security. Consultant to the major U.S. chemical and oil worker unions, environmental groups, insurance companies and university and governmental bodies including the District of Columbia Council. Campaigns and accomplishments have covered a wide range:

- Analyzed safety problems and advocated national and grassroots action strategies for chemical hazard assessment, emergency planning, accident prevention, and public access to information. Educated citizens, workers and public officials in scores of petrochemical communities on generic industrial safety issues and on existing risk documents such as worst-case accident scenarios. Advocated many specific safety improvement activities by companies and governments.
- Conceived, initiated and with allies advocated successfully for new legislation enacting a major new federal regulatory program on prevention of chemical accidents: The Clean Air Act Amendments of 1990 impact an estimated 15,000 U.S. chemical and oil facilities and provide an estimated \$3 billion of worker safety training and new risk documents for workers, government officials and the public.
- After 9/11 raised nationally and in major target cities the issue of urban transportation of ultrahazardous cargoes providing attractive targets/weapons for terrorists. Campaign included new re-routing bills introduced in 10 cities and 3 states, testimony in city council hearings, supporting materials solicited from experts, submission of expert affidavit for court case, community presentations, national overview articles in trade press and chapters in books, op-ed pieces and promotion of coverage by local and national media. Wrote and lobbied for national rail hazmat re-routing legislation signed by the President on August 3, 2007, and led subsequent efforts to improve the law and regulations.

2004-present Consultant on chemical accident and terrorism risks.

Projects for various clients included: proposed oil refinery expansion to use Hydrogen Fluoride in Bakersfield CA (comments on DEIS and community protest led to revised proposal without HF); analysis for Will County IL of proposed 10-fold expansion of rail freight including hazmat cargoes through 30 populated Chicago suburbs; analysis of terrorism risk scenarios in publications by Columbia University and insurance company; media research on regional rail

hazmat risks; analysis of transportation risks of nerve gas chemicals; comment on CA state task force on railroad safety; analysis of chlorine transportation routes; for City of Savannah, analysis of LNG trucking risks and recommendations for local hazmat flow study; analysis of risks of major petrochemical port in South America; plus pro bono consulting, most recently on crude oil by rail issues in Albany NY and Washington DC.

2003-2005 Director, Target Cities Re-Routing Project, Friends of the Earth, Washington, D.C.

Initiated foundation-funded project to reduce safety and terrorism risks in transportation of ultrahazardous industrial chemical cargoes through High Threat Target Cities, with beginning focus in the Nation's Capital. Analyzed issues and regulations and advocated successfully for enactment of local DC Council Bill 15-525 banning the most dangerous cargoes; did technical, legal and regulatory analysis for fact sheets, Council testimony and slides; led alliance of union locals, tourist industry, emergency room physicians, environmentalists and public health associations in promoting the bill; did outreach and community presentations to Local Emergency Planning Committees, Metropolitan Washington Council of Governments, George Washington University occupational health forum, and media shows. Met with major stakeholders such as chemical shippers, city agencies, and railroads. Analyzed the issues and initiated introduction of re-routing ordinances in 10 other target cities, including St. Louis, Minneapolis, Memphis, Buffalo, Albany, Cleveland, Baltimore, Boston, Chicago and state legislatures of New York State and Tennessee. As the issue reached the national level in 2005 and again in 2007, helped write re-routing legislation for several committees of the House and Senate, and commented on the 2006 proposed twin rail security regulations from the Transportation Security Administration/DHS and US DOT. Consulted with target city governments, TV investigative reporters, national media, citizen groups. Invited expert presentation on dangerous cargoes to US Coast Guard's Chemical Transportation Advisory Committee, May 2006, Philadelphia PA and in roundtable "Railroad Routing of Hazardous Materials Expert Panel" hosted by ATSDR/DHS/SRB, September 2006 Atlanta GA. Wrote op eds and articles for trade journals and for book: James J.F. Forest (ed.), "Homeland Security" by Praeger Security International, 2006, Volume 3.

2004-2005 Consultant, International Brotherhood of Teamsters Rail Conference, Washington, D.C.

Analyzed rail safety, transportation security, and Liquefied Natural Gas facility security issues for the Research and Strategic Initiatives departments. Initiated project for survey and publication "High Alert" on chemical security issues in rail yards.

2001-2002 Consultant, Bio-Terrorism Technology, Public Technology Inc., Washington, D.C.

Analyzed availability of emerging technologies from federal laboratories for detection and decontamination of biological agents for use by local officials in a terrorism context. Analyzed technical and testing data, provided summaries, wrote comparisons of the technologies and recommendations for an ongoing system of third-party assessment and user needs surveys that

could help local officials wisely spend public funds on new capabilities.

2000-2001 Research Director, Roofers International Union, Washington, D.C.

In the service of an organizing campaign with residential construction workers in the Southwest U.S., did strategic corporate analysis on major homebuilder corporations. Wrote homebuilder corporate profiles and White Paper on worker justice issues. Advocated strategies on sprawl, retirees and healthcare, and networked with union retiree groups, Interfaith Councils, AFL-CIO and other allies. Did web analysis and advocacy for the campaign website, campaign leaflets, etc.

1999-2000 Director of Environmental and Public Safety Policy, Center for Y2K and Society, Washington, D.C.

Analyzed and publicized the potentially catastrophic systemic safety risks that Y2K posed to major national infrastructures such as petrochemical, water supply and food industries, to at-risk communities and to democratic decision-making. Wrote technical and policy analyses and policy and action-oriented recommendations content for Center's website. Advocated safety improvements in national and local forums and in weekly conference calls with allies.

1995-1997 D.C. Coordinator, Nuclear Waste Citizens Coalition, Washington, D.C.

Coordinated the work of a coalition of national and regional groups, from both commercial nuclear power plant communities and nuclear weapons site communities. Analyzed issues of centralized interim storage and transportation of irradiated fuel. Did technical research and organized and led Congressional advocacy, convened meetings of member groups, and wrote weekly fact sheets, analyses and recommendation on the issue.

1994-2002 Consultant, nuclear waste and chemical accident prevention policies

Clients included Public Technology Inc., Oil Chemical and Atomic Workers International Union, United Steelworkers of America, International Chemical Workers Union, Operating Engineers International Union, Friends of the Earth/England and Wales, National Environmental Law Center, Environmental Working Group, Labor Ministry of Brazil, Greenpeace International. Provided analysis for curriculum and delivered content at chemical accident prevention training programs, advocated for safety improvements at conferences on chemical accident prevention policy and programs, advocated for worker and citizen action implementing the new US chemical accident prevention laws.

1989-1994 Director of the Toxics Project, Friends of the Earth, Washington, D.C.

Responsible for analysis, policy development, lobbying and advocacy in chemical accident prevention, risk assessment, air toxics emissions, right-to-know issues, hazardous materials transportation and multinational corporate accountability.

- Built ad hoc partnerships of activists, workers, state and local officials and media contacts in chemical communities and provided technical and strategy analysis and recommendations. Founded and initially steered the Working Group on Community Right-To-Know, comprised of national and local environmental groups and labor unions. Wrote and published foundation-funded “The Community Plume” publication with analyses and fact sheets, to recommend strong roles for federally-mandated Local Emergency Planning Committees.
- As a safety analyst and policy expert, addressed international conferences on chemical accident prevention. Served as environmental advocate with the U.S. government delegations and developed recommendations for safety improvement in conferences with industry and government participants in London, Manchester, Stockholm, Berlin, Boston, Milan, Goa and Ahmedabad (India), and Tokyo.
- Worked with the environmental and labor coalition that in 1991-94 lobbied OSHA and EPA, advocating regulations to implement the Clean Air Act Amendments of 1990. Provided analysis and recommendations for testimony in Congressional hearings and wrote technical comments on proposed regulations.
- As an OSHA grant-funded consultant to the three major U.S. petrochemical labor unions, trained groups of workers in several cities on chemical accident risks and accident prevention. Advocated in Congress for two major unions for new worker safety training funds.
- *International advocacy:* gave invited presentations on chemical accident prevention and community right-to-know policy and legislation to government and industry officials, universities and citizens groups in Brazil, Canada, Lithuania, Latvia, Bulgaria, Mexico, India, Vietnam, Thailand, Germany, Argentina, and Australia.

1979-1988 Director of the Nuclear and Hazardous Materials Transportation Project at the Environmental Policy Institute, Washington, D.C.

Spearheaded environmentalist efforts, educated the public and advocated for safety improvement by the government and corporations on issues of nuclear and hazardous materials storage and transportation.

Worked with Capitol Hill, several regulatory agencies, national trade associations, national media, environmental NGOs, labor unions, petrochemical industry, investor groups, and funders to develop recommendations in testimony before several House and Senate committees.

1978-1979 Research consultant, Ohio Public Interest Campaign.

Working under a federal grant, researched and wrote final evaluation of a four-year project on plant closings in Ohio.

1972-1978 Assistant Professor of Sociology, George Mason University, Fairfax, Virginia.

Taught political sociology, social problems, sociology of war and peace, social theory.

PUBLICATIONS

- Fire Chief Fire Magazine blog 9 21 10 "Coming to a City Near You" on rail security
- Cargo Security International report 2pp, "Rail Security: Risk Factors", June-July, 2010
- "Terror threats ought to factor into rail routes," op ed June 19, 2009, Minneapolis, Minn., Star Tribune.
- "Dangerous railroad cargo could threaten public safety", op ed July 17 2009, St Louis Post-Dispatch
- White Paper, Friends of the Earth, "Transcontinental Freight Rail Monopoly Game: Chicago Area Communities In Play and At Risk" September 2008
- "Seven Years After 9/11: No Protective Rail Hazmat Re-Routing Yet", guest column in Government Security News, March 18, 2009
- "Don't Insult Citizens", letter to editor, May 11, 2008, Bakersfield Californian
- "Diverting Risk", Cargo Security International, December 2008/January 2009, pp. 26-28
- "Rails shouldn't fight hazmat rules", analysis of new federal regulations, in The Journal of Commerce, January 21, 2008
- "'Betting the Nation: Poison Gas Cargoes Through Target Cities," in James J.F. Forest (ed.), "Homeland Security: Protecting America's Targets" by Praeger Security International 2006, Volume 3 "Critical Infrastructure".
- "The Elephant in the Living Room," opinion piece on WMD cargoes in ports, in The Journal of Commerce, May 1, 2006.
- "New Strategies to Protect America: Putting Rail Security on the Right Track", a paper in the Critical Infrastructure Security Series, published by the Center for American Progress, 2005.
- "City Limits", Opinion piece on hazmat security, in Cargo Security International magazine, October 2004.
- "The Terrorism Prevention and Safety in Hazardous Materials Transportation Act of 2004",

DC Bill 15-525, enacted in February 2005. Upheld in Federal District Court, it has been the model for similar re-routing bills in Baltimore, Cleveland, Boston and Chicago

* "Hell Might Come on Wheels," op-ed piece in "Close To Home" section, Washington Post, February 16, 2003, on the terrorism and hazardous materials transportation issue.

* Articles with recommendations for school boards on terrorism and hazardous materials issues, "School Board Journal", 2003.

* "Don't Harm the Most Vulnerable", a White Paper on Residential Construction in the Southwest, Roofers Local 135, Phoenix AZ, July 2000

* "Y2K and the Environment: The Challenge for Local Officials", published by Public Technology Incorporated, 1999.

* "Winning the Right-To-Know", in The Environmental Forum, December, 1992

* "The Community Plume", a foundation-funded publication that Friends of the Earth sent to 4100 Local Emergency Planning Committees in the U.S., 1988-91.

* Op-Ed piece, New York Times Business Section, "Braking the Slide in Chemical Safety", May 1986

* "Regulations on the Routing of Irradiated Fuel," a chapter in The Urban Transport of Irradiated Fuel (Macmillan Press, 1984)

* "Hazardous Materials Transportation", a series of three articles for International Fire Chief magazine, 1981.

EDUCATION

B.A. in Philosophy from Notre Dame University (1966)

M.A. and Ph.D. in Sociology from Case Western Reserve University (1975).