

CURRICULUM VITAE

RONALD M. ATLAS

HOME CONTACT INFORMATION:

1603 Dunbarton Wynde
Louisville, Kentucky 40205
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BUSINESS CONTACT INFORMATION:

Biology Department
University of Louisville
Louisville, KY 40292
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E-mail: r.atlas@louisville.edu

DATE AND PLACE OF BIRTH: October 19, 1946, New York City

MARITAL STATUS: Married, two children

EDUCATION:

SUNY at Stony Brook	Biology	BS	6/68
Rutgers the State University	Microbiology	MS	6/70
Rutgers the State University	Microbiology	Ph.D.	10/72

DISSERTATION TITLE: Biodegradation of crude oil in the marine environment.

HONORS:

Johnson and Johnson Fellowship for Biology, 1971
Resident Research Associate - National Research Council, 1972
Sigma Xi
American Men and Women of Science
National lecturer Sigma Xi 1982-1984
American Society for Microbiology Lecturer 1984-1985
Honorary Member - Golden Key
University of Louisville Research Excellence Award 1985
ASM Applied and Environmental Microbiology Award 1991
University of Louisville Distinguished Service Award 1998
ASM Founders Distinguished Service Award 2000
DSci (*honoris causa*) University of Guelph 2005

EMPLOYMENT:

Teaching Assistant - Rutgers U.	9/68 - 9/70
Research Assistant - Rutgers U.	9/70 - 9/71
Research Fellow - Rutgers U.	9/71 - 8/72
Resident Research Associate - Jet Propulsion Laboratory	9/72 - 9/73
Assistant Professor, Biology - U of L	9/73 - 6/77
Associate Professor, Biology - U of L	7/77 - 6/81
Professor, Biology - U of L	7/81 - present
Professor, Public Health - U of L	10/02- present
Associate Dean, A & S - U of L	7/88 - 6/91
Acting Chairman, Department of Microbiology and Immunology - U of L	7/97 - 8/98
Graduate Dean - U of L	9/99 - 12/07
Co-Director, Ctr for Health Hazards Preparedness - U of L	8/02 - present

AFFILIATIONS:

American Society for Microbiology (ASM)
American Association for the Advancement of Science (AAAS)
Society for Industrial Microbiology (SIM)
Sigma Xi
American Academy for Microbiology (AAM)

EDITORIAL BOARDS:

Applied and Environmental Microbiology (1975-1981; 1989-1992)
Advances in Microbial Ecology (1984-1994)
Journal of Industrial Microbiology (1987-1990)
Bioscience (1986-1996)
Binary (1989-1996)
Biosecurity and Bioterrorism (2003-present)

POSITIONS:

Environmental Committee of ASM Public and Scientific Affairs Board (1982-1997)
Chairman, Environmental Committee of ASM Public and Scientific Affairs Board (1988-1998)
Steering Board of Microbiology Computer Users Group (1986-1990)
Education Committee of ASM BET (1985-1988)
Acting Director Institute for the Environment and Sustainable Development (1992)
President Elect ASM (2001-2002)
President ASM (2002-2003)
Past President ASM (2003-2004)
Editor Taylor and Francis Critical Reviews in Microbiology (1991-2007)
Board of Directors Council of Graduate Schools (2003-2005)

ADVISORY COMMITTEES:

NIH Recombinant Advisory Committee (RAC) (1987-1991)
US EPA Bioremediation Action Committee (1990-1995)
Chairman Kentucky EPA Epscor Committee (1991-1992)
Co-chairman ASM Public and Scientific Affairs Board, Task Force on Biological Weapons (1998-2001)
National Academy of Sciences Committee on Science and Technology for Countering Terrorism (2002)
National Academy of Sciences Committee on Research Standards and Practices to Prevent the Destructive Application of Biotechnology, Development, Security, and Cooperation (2002-2003)
National Academy of Sciences Committee on Decontaminating Public Facilities Affected by Exposure to Harmful Biological Agents: How Clean is Safe? (2003-2005)
NASA Planetary Protection Board (2001-2006)
FBI Scientific Working Group on Microbial Forensics (2002-2006)
Defense Science Board SARS Task Force (2003-2005)
Department of Homeland Security Science and Technology Advisory Committee (2003-2005)
Chair, Wellcome Trust Immunology and Infectious Disease Strategy Committee (2005-2007)
Chair, Wellcome Trust Infection, Immunology and Population Health Strategy Committee (2008- present)
Co-chairman ASM Public and Scientific Affairs Board, Committee on Biodefense (2005-present)

National Academy of Sciences Committee on Science, Security and Prosperity in a Changing World (2006-present)
Chair Planetary Protection Subcommittee, NASA Advisory Council, (2006-present)
American Association of University Professors, Committee A on Academic Freedom and Tenure (2006-present)
FBI Scientific Working Group on Forensic Analysis of Chemical, Biological, Radiological and Nuclear Terrorism (2006-present)

CONSULTANTSHIPS:

Exxon (Clinton NJ)
Chevron (Richmond CA)
Mobil (Princeton NJ)
Brown and Williamson (Louisville KY)
Brown Forman (Louisville KY)
Hilliard Lyons (Louisville KY)
Envirogen (Lawrenceville NJ)
John Wiley (New York)
Chapman Hall (New York)
McGraw Hill (New York)
Industrial Economics Incorporated (Cambridge MA)
CRC Press (Boca Raton)
Exxon (Houston)

COURSES TAUGHT: (At University of Louisville)

General Bacteriology (for biology majors)
Introductory Microbiology (for non-majors)
Microbial Ecology (for graduate and upper level undergraduates)
Industrial and Food Microbiology (for graduate students)
Microbial Physiology and Metabolism (graduate seminar)
Special Topics in Water Pollution (for graduate students)

GRANTS AND CONTRACTS

Office of Naval Research (ONR): 1/1/73 - 12/31/73. \$15,000. (P.I. - R.M. Atlas.) Fate and effects of oil pollutants in extremely cold environments.

Office of Naval Research (ONR): 1/1/74 - 12/31/74 \$15,000 (P.I. - R.M. Atlas) Fate and effects of oil pollutants in extremely cold environments.

Office of Naval Research (ONR): 1/1/75 - 12/31/75 \$15,000 (P.I. - R.M. Atlas) Fate and effects of oil pollutants in extremely cold environments.

Office of Naval Research (ONR): 1/1/76 - 12/31/76 \$15,531 (P.I. - R.M. Atlas) Fate and effects of oil pollutants in extremely cold environments.

Office of Naval Research (ONR): 1/1/77 - 12/31/77 \$20,619 (P.I. - R.M. Atlas) Fate and effects of oil pollutants in extremely cold environments.

Office of Naval Research (ONR): 1/1/78 - 12/31/78 \$20,605 (P.I. - R.M. Atlas) Fate and effects of oil pollutants in extremely cold environments.

National Oceanic and Atmospheric Administration (NOAA): 7/1/75 - 9/30/76 \$95,183 (P.I. - R.M. Atlas; Co-P.I. - L.S. Cronholm) Assessment of potential interactions of microorganisms and pollutants resulting from petroleum development on the Outer Continental Shelf in the Beaufort Sea.

National Oceanic and Atmospheric Administration (NOAA): 7/1/75 - 9/30/76 \$94,183 (P.I. - R.M. Atlas; Co-P.I. - L.S. Cronholm) Assessment of potential interactions of microorganisms and pollutants resulting from petroleum development on the Outer Continental Shelf in the Gulf of Alaska.

National Oceanic and Atmospheric Administration (NOAA): 10/1/76 - 9/30/77 \$55,316 (P.I. - R.M. Atlas) Microbial communities in Lower Cook Inlet, Alaska.

National Oceanic and Atmospheric Administration (NOAA): 10/1/76 - 9/30/77 \$34,500 (P.I. - R.M. Atlas) Assessment of potential interactions of microorganisms and pollutants resulting from petroleum development on the Outer Continental Shelf in the Beaufort Sea.

National Oceanic and Atmospheric Administration (NOAA): 10/1/77 - 9/30/78 \$176,810 (P.I. - R.M. Atlas) Assessment of potential interactions of microorganisms and pollutants resulting from petroleum development.

National Oceanic and Atmospheric Administration (NOAA): 10/1/78 - 9/30/79 \$135,504 (P.I. - R.M. Atlas) Assessment of potential interactions of microorganisms and petroleum pollutants in Alaskan Outer Continental Shelf areas.

National Oceanic and Atmospheric Administration (NOAA): 9/1/79 - 9/30/80 \$25,000 (P.I. - R.M. Atlas) Biodegradation of Mousse from the Ixtoc I well blowout.

National Oceanic and Atmospheric Administration (NOAA): 10/1/79 - 10/1/80 \$175,000 (P.I. - R.M. Atlas).

National Oceanic and Atmospheric Administration (NOAA): 10/1/80 - 12/31/82 \$50,000 (P.I. - R.M. Atlas) Assessment of potential interactions of microorganisms and petroleum pollutants in Alaska Continental Shelf areas.

CNEXO NOAA: 11/1/78 - 12/31/79 \$46,388 (P.I. - R.M. Atlas) Interactions of microorganisms and petroleum in sediment from the Amoco Cadiz oil spill.

CNEXO NOAA: 1/1/80 - 12/31/80 \$37,500 (P.I. - R.M. Atlas) Interactions of microorganisms and petroleum in sediment impacted by the Amoco Cadiz oil spill.

Department of Energy Subcontract from VPI: 6/1/75 - 5/31/76 \$27,004 (P.I. - R.M. Atlas; VPI P.I. - Orson Miller) Impact of oil on tundra microorganisms.

Department of Energy Subcontract from VPI: 6/1/76 - 5/31/77 \$28,000 (P.I. - R.M. Atlas; VPI P.I. - Orson Miller) Impact of oil on tundra microorganisms.

Department of Energy Subcontract from VPI: 6/1/77 - 5/31/78 \$31,330 (P.I. - R.M. Atlas; VPI P.I. - Orson Miller) Impact of oil on tundra microorganisms.

Department of Energy Subcontract from VPI: 6/1/78 - 9/30/78 \$11,000 (P.I. - R.M. Atlas; VPI P.I. - Orson Miller) Impact of oil on tundra microorganisms.

Department of Energy Subcontract from VPI: 10/1/78 - 9/30/79 \$30,000 (P.I. - R.M. Atlas; VPI P.I. - Orson Miller) Impact of oil on tundra microorganisms.

Department of Energy Subcontract from VPI: 10/1/79 - 9/30/80 \$28,000 (P.I. - R.M. Atlas; VPI - Arthur Linkens) Impact of oil on tundra microorganisms.

Southern Pacific Petroleum: 9/1/85 - 12/31/87 \$150,000 (P.I. - R.M. Atlas) Biotechnological enhancement of oil recovery from shale.

Southern Pacific Petroleum: 12/31/87 - 6/30/88 \$24,462 (P.I. - R.M. Atlas) Biotechnological enhancement of oil recovery from shale.

Environmental Protection Agency: 9/1/87 - 8/31/89 \$145,946 (P.I. - R.M. Atlas; Co-P.I. - M. Perlin) Measurement of persistence and effects of microbial diversity of pesticide-degrading microorganisms in soil.

Environmental Protection Agency: 9/1/89 - 8/30/90 \$63,000 (P.I. - R.M. Atlas; Co-P.I. - M.H. Perlin) Detection of Microorganisms in Water by Polymerase Chain Reaction (PCR): Use of mRNA target for distinguishing viable from nonviable pathogens.

Graham Brown Foundation: 6/9/88 \$10,000 (P.I. - R.M. Atlas) Biodegradation of creosote contaminants in the environment.

Louisville Water Company: 6/1/89 - 12/31/89 \$13,037 (P.I. - R.M. Atlas) PCR coliform for water quality assessment: comparison with conventional test methods.

Perkin-Elmer-Cetus: 9/1/89 - 8/31/90 \$60,000 (P.I. - R.M. Atlas; Co-P.I. - R. Miller) Development of PCR detection methods for environmental monitoring of coliform and *Legionella* bacteria.

Environmental Protection Agency: 9/1/90 - 8/90/91 \$12,000 (P.I. - R.M. Atlas; Co-P.I. - M.H. Perlin) Detection of microorganisms in water by polymerase chain reaction (PCR): use of mRNA target for distinguishing viable from nonviable pathogens.

Perkin-Elmer-Cetus: 9/1/90 - 8/31/91 \$60,000 (P.I. - R.M. Atlas) Development of PCR detection methods for environmental monitoring of coliform and *Legionella* bacteria.

EXXON: 7/1/89 - 5/1/90 \$150,000 (P.I. - R.M. Atlas) Microbial EXXON-Valdez Environmental Assessment Program.

EXXON: 5/1/90 - 7/1/91 \$150,000 (P.I. - R.M. Atlas) Microbial EXXON-Valdez Environmental Assessment Program.

EXXON: 7/1/91 - 12/31/91 \$65,000 (P.I. - R.M. Atlas) Microbial EXXON-Valdez Environmental Assessment Program.

EXXON: 12/1/92 - 12/1/93 \$86,700 (P.I. - R.M. Atlas) Biotransformation of heterocyclic compounds in coal for liquefaction enhancement

Roche: 9/1/91 - 8/31/92 \$35,000 (P.I. - R.M. Atlas) Development of PCR detection methods for environmental monitoring of coliform and *Legionella* bacteria.

Environmental Protection Agency: 7/1/92 - 6/30/93 \$175,000 (P.I. - Cheri Hildreth, Co-P.I. - R.M. Atlas) Hazardous Waste Training Institute.

Environmental Protection Agency: 7/1/93 - 7/30/94 \$155,000 (P.I. - R.M. Atlas) Hazardous Waste Training Institute.

Environmental Protection Agency: 8/1/94 - 8/31/95 \$132,811 (P.I. - R.M. Atlas) Hazardous Waste Training Institute.

Environmental Protection Agency: 9/1/95 - 8/30/98 \$157,665 (P.I. - R.M. Atlas) Hazardous Waste Training Institute.

Battelle/Department of Energy: 9/30/97 - 12/31/01 \$22,712 (P.I. - R.M. Atlas) Assessing potential impact of mandatory verification of biological weapons convention on universities.

Environmental Protection Agency: 9/30/98 - 12/31/03 \$558,000 (P.I. - R.M. Atlas) Hazardous Waste Training Institute.

Department of Energy 10/30/00 – 6/30/05 - \$22,000 (PI-RM Atlas) *Nostoc* consortium.

Center for Disease Control and Prevention 8/1/02 – 7/31/03 --\$1,480,000 (P.I. - R.M. Atlas) Center for the Deterrence of Biowarfare and Bioterrorism.

Center for Disease Control and Prevention 8/1/03 – 7/31/04 --\$1,480,000 (P.I. - R.M. Atlas) Center for the Deterrence of Biowarfare and Bioterrorism.

Center for Disease Control and Prevention 8/1/04 – 7/31/06 --\$1,399,447 (P.I. - R.M. Atlas) Center for the Deterrence of Biowarfare and Bioterrorism.

Council of Graduate Schools 12/04 – 12/07 - \$60,000 (P.I. - R.M. Atlas) Ph.D. Completion Project.

PAPERS PRESENTED

Atlas, R.M. and R. Bartha. 1971. Biodegradation of petroleum of two marine bacterial isolates. Abstracts of Papers. 162nd National Meeting of the American Chemical Society. Micr-021.

Atlas, R.M. 1972. Limiting factors of oil biodegradation in the sea. Bacteriol. Proc. E13.

Bartha, R. and R.M. Atlas. 1972. Transport kinetics of nickel in *Hydrogenomonas* and in heterotrophic bacteria. Bacteriol. Proc. P218.

Pirnick, M., R.M. Atlas, and R. Bartha. 1973. Pristane: Diauxic utilization and degradation pathway by a *Brevibacterium* sp. Bacteriol. Proc. P179.

Atlas, R.M. 1974. Microbial degradation of petroleum pollutants in marine environments. Abstracts: First Intersectional Congress of the International Association of Microbiological Societies. Sept., Tokyo, Japan. G-4-2.

Atlas, R.M. and J.S. Hubbard. 1974. *In situ* measurements of microbial ¹⁴CO₂ assimilation in Arctic soils. Abstracts of Annual Meeting. American Society for Microbiology. E24.

Atlas, R.M., E.A. Schofield, F.A. Morelli, and R.E. Cameron. 1974. Interactions of microorganisms and petroleum pollutants in the Arctic. Abstracts of Annual Meeting. American Society for Microbiology. G267.

Bushdosh, M. and R.M. Atlas. 1974. Response of Arctic amphipods to environmental stress. 60th Annual Meeting Kentucky Academy of Science. Nov., Danville, KY.

Schofield, E.A. and R.M. Atlas. 1974. Effects of sulfur diocide on Arctic North Slope lichens. 25th Annual AIBS Meeting. June 16-21, Tempe, AZ.

Atlas, R.M. and M. Bushdosh. 1975. Microbial degradation of petroleum in the Arctic. 3rd International Biodegradation Symposium. Aug., Kingston, RI.

Atlas, R.M., A. Sexstone, and M. Busdosh. 1975. Effects of petroleum and related pollutants on Arctic microorganisms. Abstracts of Annual Meeting. American Society for Microbiology. Q22.

Atlas, R.M. 1976. Microbiological studies as part of Alaska's Outer Continental Shelf Environmental Assessment Program for offshore petroleum development. 27th Alaska Science Conference. AAAS. Aug., Fairbanks, AK.

Atlas, R.M. 1976. Studies on petroleum biodegradation in the Arctic. Symposium on the Fate and Effects of Petroleum Hydrocarbons in Marine Ecosystems and Organisms. National Oceanic and Atmospheric Administration. Nov., Seattle, WA.

Atlas, R.M., T. Kaneko, J.D. Hauxhurst, G. Roubal, T.S. Kaneko, K. Jaberizadeh, and C. Pennington. 1976. Populations of microorganisms overlying the continental shelf of Alaska. Abstracts of Annual Meeting. American Society for Microbiology. N48.

Busdosh, M. and R.M. Atlas. 1976. Toxicity of petroleum to Arctic amphipods. Symposium on the Fate and Effects of Petroleum Hydrocarbons in Marine Ecosystems and Organisms. National Oceanic and Atmospheric Administration. Nov., Seattle, WA.

Horowitz, A. and R.M. Atlas. 1976. Interactions of crude oil and Arctic microbial populations in open chemostats. Abstracts of Annual Meeting. American Society for Microbiology. Q21.

Horowitz, A. and R.M. Atlas. 1976. Oil biodegradation in Arctic coastal waters. 27th Alaska Science Conference. AAAS. Aug., Fairbanks, AK.

Sexstone, A.J. and R.M. Atlas. 1976. Mobility and biodegradability of crude oil in Arctic tundra soils. Annual Meeting. Society for Industrial Microbiology. Aug., Jeckyll Island, GA.

Sexstone, A., C. Winter, and R.M. Atlas. 1976. Response of microorganisms in Arctic tundra soils to application of crude oil. Abstracts of Annual Meeting. American Society for Microbiology. Q22.

Atlas, R.M. 1977. Methods for measuring oil biodegradation in the Arctic. ASTM Workshop on Native Aquatic Bacteria. Jan., Fort Lauderdale, FL.

Atlas, R.M. 1977. Use of ^{14}C radiolabelled hydrocarbon spiked crude oil for measuring hydrocarbon biodegradation potential and enumerating hydrocarbon utilizing microorganisms. ASTM Symposium on native Aquatic Bacteria, Enumeration, Activity and Ecology. June 25, Minneapolis, MN.

Atlas, R.M., A. Horowitz, and M. Busdosh. 1977. Prudhoe crude oil in Arctic marine ice, water and sediment ecosystems: Degradation and interactions with microbial and benthic communities. Recovery of Oiled Northern Marine Environments Symposium. Oct. 11-14, Halifax, Canada.

Horowitz, A. and R.M. Atlas. 1977. Crude oil degradation in the Arctic: Changes in bacterial populations and oil composition during one year exposure in a model system. Annual Meeting. Society for Industrial Microbiology. Aug., East Lansing, MI.

Horowitz, A. and R.M. Atlas. 1977. Interactions of microorganisms and hydrocarbons following an accidental leakage of gasoline into a freshwater lake at Barrow, Alaska. Abstracts of Annual Meeting. American Society for Microbiology. Q83.

Kaneko, T., J. Hauxhurst, M. Krichevsky, and R.M. Atlas. 1977. Numerical taxonomic studies on microorganisms isolated from Arctic and Subarctic marine environments. International Symposium on Microbial Ecology. Aug. 22-26, Dunedin, New Zealand.

Kaneko, T., T.S. Kaneko, M.I. Krichevsky, and R.M. Atlas. 1977. Characteristics of orange pigmented bacteria from the Beaufort Sea. Abstracts of Annual Meeting. American Society for Microbiology. N47.

Roubal, G. and R.M. Atlas. 1977. Use of ^{14}C radiolabelled spiked crude oil to assess oil biodegradation potential in the Beaufort Sea. Abstracts of Annual Meeting. American Society for Microbiology. Q83.

Sextone, A. and R.M. Atlas. 1977. Persistence of oil in tundra soils. Annual Meeting. Society for Industrial Microbiology. Aug., East Lansing, MI.

Atlas, R.M. 1978. Management of large scale ecological and taxonomic data bases. XII International Congress of Microbiology. Sept. 3, Munich, Germany.

Busdosh, M., K.W. Dobra, A. Horowitz, S.E. Neff., and R.M. Atlas. 1978. Potential long-term effects of Prudhoe Bay crude oil in Arctic sediments on indigenous benthic invertebrate communities. Conference on Assessment of Ecological Impacts of Oil Spills. American Institute of Biological Sciences. June 14-17, Keystone, CO.

Gustin, P. and R.M. Atlas. 1978. Effects of crude oil on soil respiration in Arctic tundra soils. Abstracts of Annual Meeting. American Society for Microbiology. A73.

Horowitz, A. and R.M. Atlas. 1978. Microbial seeding to enhance petroleum hydrocarbon biodegradation in aquatic Arctic ecosystems. Fourth International Biodeterioration Symposium. Sept., Berlin, Germany.

Horowitz, A., M.I. Krichevsky, and R.M. Atlas. 1978. Numerical taxonomic studies on bacteria selected for ability to utilize hydrocarbons from Arctic aquatic ecosystems exposed to crude or refined oil. Abstracts of Annual Meeting. American Society for Microbiology. Q80.

Horowitz, A., A. Sexstone, and R.M. Atlas. 1978. Hydrocarbons and microbial activities in sediment of an Arctic lake one year after contamination with leaded gasoline. Workshop: Ecological effects of hydrocarbon spills in Alaska. April 8-18, Woods Hole, MA.

Linkins, A.E., R.M. Atlas, and P. Gustin. 1978. Effect of surface applied crude oil on soil and vascular plant root respiration, soil cellulase, and hydrocarbon hydroxylase at Barrow, Alaska. Workshop: Ecological effects of hydrocarbon spills in Alaska. April 8-18, Woods Hole, MA.

Roubal, G. and R.M. Atlas. 1978. Hydrocarbon biodegradation in Cook Inlet, Alaska. Annual Meeting. Society for Industrial Microbiology. Aug. 13-18, Houston, TX.

Roubal, G.E., A. Horowitz, and R.M. Atlas. 1978. Disappearance of hydrocarbons following a major gasoline spillage in the Ohio River. Annual Meeting. Society for Industrial Microbiology. Aug. 13-18, Houston, TX.

Sexstone, A.J. and R.M. Atlas. 1978. Effects of crude oil on denitrification and nitrogen fixation in Arctic tundra soils. Abstracts of Annual Meeting. American Society for Microbiology. Q72.

Sexstone, A., K. Everett, T. Jenkins, and R.M. Atlas. 1978. Fate of crude and refined oils in north slope soils. Workshop: Ecological effects of hydrocarbon spills in Alaska. April 8-18, Woods Hole, MA.

Sexstone, A., P. Gustin, and R.M. Atlas. 1978. Long term interactions of microorganisms and Prudhoe Bay crude oil in tundra soils at Barrow, Alaska. Workshop: Ecological effects of hydrocarbon spills in Alaska. April 8-18, Woods Hole, MA.

Sexstone, A., P. Gustin, O. Miller, P. Linkins, K. Everett, and R.M. Atlas. 1978. Biodegradation of crude oil by tundra soil microorganisms. Fourth International Biodeterioration Symposium. Sept., Berlin, Germany.

Atlas, R.M. 1979. Microbial ecology of hydrocarbon degradation. 79th Annual Meeting, American Society for Microbiology. U.S.-Japan Intersociety Microbiology Congress. May 8-11, Honolulu, HI.

Atlas, R.M. 1979. Some considerations on the microbial transformations of organic pollutants: Microorganisms, degradation, and toxicity of complex mixtures. American Society for Microbiology, Conference on Aquatic Microbial Ecology. Feb. 7-10, Clearwater Beach, FL.

Atlas, R.M. 1979. Use of ecological and taxonomic data bases for land use planning and monitoring of environmental impact. 79th Annual Meeting, American Society for Microbiology. U.S.-Japan Intersociety Microbiology Congress. May 8-11, Honolulu, HI.

Atlas, R.M. and A. Bronner. 1979. Microbial hydrocarbon degradation within intertidal zones impacted by the Amoco Cadiz oil spillage. International Symposium on the Amoco Cadiz Oil Spill. Nov. 19, Brest, France.

Horowitz, A., M.I. Krichevsky, and R.M. Atlas. 1979. Taxonomic and ecological studies on near-Arctic marine bacteria. 79th Annual Meeting, American Society for Microbiology, U.S.-Japan Intersociety Microbiology Congress. May 8-11, Honolulu, HI.

Atlas, R.M. 1980. Microbial degradation of petroleum in tundra soils. IX Arctic Workshop. Instar. Boulder, CO.

Atlas, R.M. 1980. Use of diversity indices for describing microbial community structure. 2nd International Microbial Ecology Symposium. Warwick, Great Britain.

Atlas, R.M. and A. Bronner. 1980. Response of intertidal microbial populations to oil from the Amoco Cadiz spillage. American Society for Microbiology.

Atlas, R.M., G.E. Roubal, A. Bronner, and J. Haines. 1980. Microbial degradation of hydrocarbons in mousse from Ixtoc I. Symposium on Ixtoc I, AOML. June 9-10, Miami, FL.

Atlas, R.M., G.E. Roubal, and J.R. Haines. 1980. Biodegradation of hydrocarbons in mousse from the Ixtoc I well blowout. Abstracts of Annual Meeting. American Chemical Society.

Dauffenbach, L., W.J. Mitsch, and R.M. Atlas. 1980. Modeling the fate of crude petroleum spills in Arctic tundra ecosystems. 2nd International Conference on State-of-the-Art of Ecological Modeling. Liege, Belgium.

Haines, J. and R.M. Atlas. 1980. Denitrification activities in Alaskan outer continental shelf regions. Abstracts of Annual Meeting. American Society for Microbiology.

Roubal, G. and R.M. Atlas. 1980. Biodegradation of crude oil-mousse in the Gulf of Mexico from the Ixtoc I well blowout. American Society for Microbiology.

Atlas, R.M. 1981. Fate of petroleum in the environment. Gordon Conference. Wiltsboro, NH.

Faghri, M.A. and R.M. Atlas. 1981. Examination of the bacterial populations associated with crabs. Abstracts of Annual Meeting. American Society for Microbiology. Q98.

Haines, J.R., E. Pesek, G. Roubal, A. Bronner, and R.M. Atlas. 1981. Abstracts of Annual Meeting. American Society for Microbiology. Q77.

Atlas, R.M. 1982. Diversity and dynamics of marine bacterial communities. Bacteriologie Marine Colloque International CNRS. May 17-19, Marseille, France.

Atlas, R.M. 1982. Ecological aspects of hydrocarbon introduction into Arctic waters and Arctic terrestrial systems. Thirteenth International Congress of Microbiology. Aug. 23-28, Boston, MA.

Atlas, R.M. 1982. Microbial degradation of organic compounds within complex effluents. Pelston Conference. Cody, WY.

Atlas, R.M. 1982. Successes and failures of microbial biodegradation of petroleum hydrocarbons in marine environments. Symposium on Georges Bank Hydrocarbon Exploration and Development. American Society for Environmental Education. Nantucket, MA.

Davis, A.W., R.M. Atlas, and M.I. Krichevsky. 1982. Development of probabilistic matrices for the identification of Alaskan Outer Continental Shelf bacteria. Abstracts of Annual Meeting. American Society for Microbiology. I70.

Atlas, R.M. 1983. Microbial diversity measurements to assess environmental stress. Third International Microbial Ecology Symposium. Aug. 7-12, East Lansing, MI.

Atlas, R.M. 1983. Probabilistic identification of bacteria from Arctic waters. 83rd Annual Meeting. American Society for Microbiology. March 6-11, New Orleans, LA.

Faghri, M.A. and R.M. Atlas. 1983. Cellular defense reactions of crabs to exposure to *Vibrio cholerae*. Abstracts of Annual Meeting. American Society for Microbiology. March 6-11, New Orleans, LA. Q70.

Atlas, R.M. and F.K. Pfaender. 1984. Biodegradation of petroleum hydrocarbons from the IX-TOC-I well blowout in the Gulf of Mexico. Sixth International Biodeterioration Symposium. Washington, D.C.

Dobra, K.W., C. Cook, and R.M. Atlas. 1984. Chlamydial infections associated with female infertility: Detection using fluorescent-antibody techniques. Abstracts of Annual Meeting. American Society for Microbiology. C36. March 4-9, St. Louis, MO.

Gauri, L., J. Eckstein, and R.M. Atlas. 1985. Sulfate reduction of gypsum encrusted marble by *Desulfovibrio desulfuricans*. 85th Annual Meeting. American Society for Microbiology. March 3-7, Las Vegas, NV.

Atlas, R.M. 1986. Environmental fate of aromatic hydrocarbons. American Society for Microbiology/Canadian Society for Microbiology Meeting. Toronto, Canada.

Atlas, R.M. 1986. Response of microbial communities to chemical distribution. Annual Meeting. American Society for Microbiology.

Atlas, R.M. and R.Y. Morita. 1986. Arctic and Antarctic microbial communities. Fourth International Symposium on Microbial Ecology. Ljubljana, Yugoslavia.

Steffan, R.J., J. Goksoyr, and R.M. Atlas. 1986. Isolation of bacterial DNA from Ohio River sediments. 86th Annual Meeting. American Society for Microbiology. March 23-28, Washington, D.C.

Wickham, G.S. and R.M. Atlas. 1986. Effects of chemical stress on plasmid frequency in a soil bacterial community. 86th Annual Meeting. American Society for Microbiology. March 23-28, Washington, D.C.

Atlas, R.M. 1987. Biodegradation of hydrocarbons in soil and groundwater. U.S. EPA Hazardous Waste Engineering and Research Laboratory Release Control Branch. Edison, NJ.

Atlas, R.M. 1987. Biodegradation of hydrocarbons in the environment. Reducing Risks from Environmental Chemicals through Biotechnology. Seattle, WA.

Atlas, R.M. 1987. Computer aided instructional programs for teaching microbiology. Society for General Microbiology meeting. April 7-10, St. Andrews, UK.

Atlas, R.M. 1987. Fate and effects of genetically engineered microorganisms (GEMs) in the environment. Annual Meeting Society for Environmental Geochemistry and Health. May 25-28, St. Louis, MO.

Atlas, R.M. 1987. Fate of complex organic mixtures. Annual Meeting. American Society for Microbiology.

Atlas, R.M. 1987. Tracking genetically engineered microorganisms and their genomes in environmental samples. Annual Meeting Society for Industrial Microbiology. Baltimore, MD.

Atlas, R.M. and G.S. Sayler. 1987. Tracking microorganisms and genes in the environment. Reducing Risks from Environmental Chemicals through Biotechnology. Seattle, WA.

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Steffan, R.J. and R.M. Atlas. 1987. Use of specific gene probes for the detection of *Pseudomonas cepacia* DC102 in sediments. 87th Annual Meeting. American Society for Microbiology. March 1-6, Atlanta, GA.

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Atlas, R.M. 1990. Assessment of microbial and environmental risks from GEMs. Microbial Risk Assessment: Methods and Applications Seminar. Annual Meeting of American Society for Microbiology. May 13-17, Anaheim, CA.

Atlas, R.M. 1990. Characterization of naturally-occurring microorganisms using DNA analysis. Annual Scientific Meeting of Australian Society for Microbiology. July 2-6, Launceston, Australia.

Atlas, R.M. 1990. Oil spill biotreatment. Annual Scientific Meeting of Australian Society for Microbiology. July 2-6, Launceston, Australia.

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Atlas, R.M., A.K. Bej, M.H. Mahbubani, R. Steffan, M. Perlin, J. DiCesare, and L. Haff. 1990. Detection of indicator bacteria and pathogens in water by polymerase chain reaction (PCR) and gene probe methods. An International Conference on Biotechnology and Environmental Science: Molecular Approaches. Aug. 21-24, Bangkok, Thailand.

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Rothenburger, S. and R.M. Atlas. 1990. Mixed aerobic culture biodegradation of creosote. Abstracts of Annual Meeting. American Society for Microbiology. May 13-17, Anaheim, CA. Q-121.

Atlas, R.M. 1991. Applications of PCR for environmental monitoring. Annual meeting of Kanto Branch of Japanese Society for Bacteriology. June 11-13, Tokyo, Japan.

Atlas, R.M. 1991. Bioremediation: Using nature's helpers—microbes and enzymes—to remedy mankind's pollutants. Biotechnology in the Feed Industry. April 22-24, Lexington, KY.

Atlas, R.M. 1991. Bioremediation of fossil fuel contaminated sites. *In Situ* and On-Site Bioreclamation: An International Symposium. March 19-21, San Diego, CA.

Atlas, R.M. 1991. Bioremediation of marine oil spills. Workshop on Bioremediation of Marine Oil Pollution. Oct. 3, Montreal, Canada.

Atlas, R.M. 1991. Bioremediation of oil spills. Congressional Forum. May 13, Washington, D.C.

Atlas, R.M. 1991. Bioremediation of oil spills: Promise and peril. Second International Marine Biotechnology Conference. Oct. 13-16, Baltimore, MD.

Atlas, R.M. 1991. Bioremediation of the Alaskan oil spill: Prehistory and regulatory issues. American Society for Microbiology Conference on Biotechnology. June 27-30, New York, NY.

Atlas, R.M. 1991. Polymerase chain reaction (PCR) technology for detection and identification of bacteria. Water Quality Technology Conference. Nov. 10-13, Orlando, FL.

Atlas, R.M. 1991. Polymerase chain reaction (PCR) technology in environmental microbiology. Annual Meeting Canadian Society for Microbiology. June 3-6, London, Ontario.

Atlas, R.M. 1991. Undergraduate aspects of environmental and public health paradigms for the education and training of microbiologists. American Society for Microbiology Annual Meeting. May 5-9, Dallas, TX.

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Bej, A.K., M.H. Mahbubani, and R.M. Atlas. 1991. Bacterial detection using PCR and colorimetric gene probes methods. American Society for Microbiology 91st Annual Meeting. May 5-9, Dallas, TX.

Bej, A.K., M. Perlin, and R.M. Atlas. 1991. Effect of introducing genetically engineered microorganisms on soil microbial community diversity. Second International Conference on the Release of Genetically Engineered Microorganisms. Aug. 29-31, Nottingham, Great Britain.

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Rothenburger, S. and R.M. Atlas. 1991. Biodegradation of quinoline by *Pseudomonas putida* in an immobilized cell bioreactor. American Society for Microbiology Conference on Biotechnology. June 27-30, New York, NY.

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Atlas, R.M. 1992. Bioremediation of oil spills: Case histories. Tri-state American Society for Microbiology meeting. Aug. 5-7, Albany, NY.

Atlas, R.M. 1992. Bioremediation of oil spills: Case studies. Biotech-92 IV Congreso Nacional y I Congreso Hispano-Luso de Biotecnología. Santiago de Compostela. Profiles on Biotechnology. T.G. Villa and J. Abalde (eds.). Sept. 14-16. Chapter 33, 387-396.

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Atlas, R.M. 1992. Bioremediation of petroleum pollutants. Annual Meeting on Science and Technology. Interamerican University. Feb. 14, San Juan, Puerto Rico.

Atlas, R.M. 1992. Bioremediation of petroleum pollutants. Annual Scientific Meeting of the Australian and New Zealand Microbiology Societies. July 13-17, Sydney, Australia.

Atlas, R.M. 1992. Bioremediation of petroleum pollutants and oil spills. Symposium on Society, Industry and the Environment. April 22, South Bend, IN.

Atlas, R.M. 1992. Monitoring and containment of genetically engineered microorganisms. Bat-Sheva Symposium on Use of Natural and Genetically Engineered Microorganisms. Kibbutz Kiryat Anavim, Israel.

Atlas, R.M. 1992. Monitoring effectiveness of bioremediation of the Alaskan oil spill. Joint US-Israel workshop on bioremediation. Nov. 10-14, Nachsholim, Israel.

Atlas, R.M. 1992. Monitoring techniques for deliberately released genetically engineered microorganisms. Annual Scientific Meeting of the Australian and New Zealand Microbiology Societies. July 13-17, Sydney, Australia.

Atlas, R.M. 1992. Polymerase chain reaction amplification for detecting microorganisms in foods. Annual Meeting of the American Society for Microbiology. May 26-30, New Orleans, LA.

Atlas, R.M. 1992. Polymerase chain reaction amplification techniques. Annual Meeting of the American Society for Microbiology. May 26-30, New Orleans, LA.

Atlas, R.M., A.K. Bej, J.L. DiCesare, and S. McCarty. 1992. Monitoring microbial pathogens and indicator microorganisms in water using the polymerase chain reaction and gene probe methods. Annual Meeting American Chemical Society. Aug. 23-28, Washington, D.C.

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Bej, A.K., M.H. Mahbubani, and R.M. Atlas. 1992. Detection of genus *Salmonella* using polymerase chain reaction (PCR) method. Annual Meeting of the American Society for Microbiology. May 26-30, New Orleans, LA.

Bragg, J.R., R. Prince, J. Harner, and R.M. Atlas. 1992. Monitoring effectiveness of bioremediation of the Alaskan oil spill. Sixth International Symposium on Microbial Ecology. Sept. 6-11, Barcelona, Spain.

Gauri, K.L., L.C. Parks, J. Jaynes, and R.M. Atlas. 1992. Removal of sulfated-crust from marble using sulfate-reducing bacteria. International Stone Cleaning Conference. April 14-16, Edinburgh, Scotland.

Rothenburger, S. and Atlas, R.M. 1992. Biodegradation of 6-methylquinoline by *Pseudomonas putida* in an immobilized cell bioreactor. Annual Meeting of the American Society for Microbiology. May 26-30, New Orleans, LA.

Atlas, R.M. 1993. Bioremediation of marine oil spills. Marine Biotechnology Institute Seminar. Dec. 13-14, Kamaishi, Japan.

Atlas, R.M. 1993. Environmental pollutants and biological remediation. Seminario Ambiente y Education Superior en Centroamerica. July 28-31, San Jose, Costa Rica.

Atlas, R.M. 1993. Molecular methods for detecting and monitoring microorganisms. Keystone Conference on Environmental Biotechnology. March 6-12, Tahoe, CA.

Atlas, R.M. 1993. Petroleum biodegradation and oil spill bioremediation. American Chemical Society National Meeting. March 28-April 2, Denver, CO.

Blackburn, J.W., W.K. Robbins, R.C. Prince, E.J. Harner, J.R. Clark, R.M. Atlas, and J.B. Wilkinson. 1993. Experimental comparisons in petroleum site bioremediation. American Chemical Society National Meeting. March 28-April 2, Denver, CO.

Bragg, J.R., R.C. Prince, E.J. Harner, and R.M. Atlas. 1993. Bioremediation of the Alaskan oil spill. International Oil Spill Conference. March 29-31, Tampa, FL.

Bragg, J.R., R.C. Prince, E.J. Harner, and R.M. Atlas. 1993. Monitoring and interpreting bioremediation effectiveness. American Chemical Society National Meeting. March 28-April 2, Denver, CO.

Bragg, J.R., R.C. Prince, J. Harner, and R.M. Atlas. 1993. Monitoring and interpreting bioremediation effectiveness. 16th Arctic and Marine Oilspill Program Technical Seminar. June 7-9, Calgary, Alberta.

McCarty, S.C. and R.M. Atlas. 1993. Effect of chlorine disinfection on *Legionella pneumophila* detection using the polymerase chain reaction (PCR) with varying size amplicons. American Society for Microbiology. May 17-20, Atlanta, GA.

Prince, R.C., J.R. Clark, J.E. Lindstrom, E.L. Butler, E.J. Brown, G. Winter, M.J. Grossman, P.R. Parrish, R.E. Bare, J.F. Braddock, W.G. Steinhauer, G.S. Douglas, J.M. Kennedy, P.J. Barter, J.R. Bragg, E.J. Harner, and R.M. Atlas. 1993. Bioremediation of the Exxon Valdez oil spill: Monitoring safety and efficacy. *In Situ* and On-Site Bioreclamation: An International Symposium. April 5- 8, San Diego, CA.

Rothenburger, S. and R.M. Atlas. 1993. Biodegradation of dibenzothiophene and 4-Methyl-diben-

zothiophene by a *Pseudomonas* sp. American Society for Microbiology. May 17-20, Atlanta, GA.

Sotsky, J.B. and R.M. Atlas. 1993. Gene probe screening of *alkB* and *xyIE* in marine sediment bacterial populations. American Society for Microbiology. May 17-20, Atlanta, GA.

Atlas, R.M. 1994. Assessing the efficacy of bioremediation and degradation of petroleum hydrocarbons in the marine environment. IUMS Congresses. July 3-8, Prague, Czech Republic.

Atlas, R.M. 1994. Biological weapons verification: a scientific prospective. American Bar Association. Conference on Nonproliferation of Mass Destruction. June 10-11, Washington, D.C.

Atlas, R.M. 1994. Bioremediation of marine oil spills. Seventh International Symposium on the Genetics of Industrial Microorganisms. June 26–July 1, Montreal, Canada.

Atlas, R.M. 1994. Bioremediation of oil spills. Bio Japan. Nov. 30-Dec. 3, Osaka, Japan.

Atlas, R.M. 1994. Changes in diversity of microbial communities in response to environmental disturbance. New Approaches in Microbial Ecology. Aug. 21-25, Elsinore, Denmark.

Atlas, R.M. 1994. Efficacy of bioremediation: Chemical and risk-based determinations. OECD Workshop on Bioremediation. Nov. 27-30, Tokyo, Japan.

Atlas, R.M. 1994. Microbial ecology and human impact. Microbial Biodiversity: The Underpinning of Ecosystem Global Wellness and Economic Prosperity. Smithsonian Institution. June 23, Washington, D.C.

Atlas, R.M. 1994. PCR detection of pathogens in water. Eastern Analytical Symposium. Nov. 13- 18, Somerset, NJ.

Atlas, R.M. 1994. Probing the genes for hydrocarbon degradation in the environment. American Society for Microbiology: The 94th Annual Meeting. May 23-27, Las Vegas, NV.

Atlas, R.M. 1994. The scope of bioremediation. OECD Workshop on Bioremediation. Nov. 27-30, Tokyo, Japan.

Atlas, R.M., J.F. Williams, and M.K. Huntington. 1994. Contamination of dental water lines with *Legionella* spp. IUMS Congresses. July 3-8, Prague, Czech Republic.

Atlas, R.M., J.F. Williams, and M. Perlin. 1994. Detection of pathogens in environmental reservoirs using the polymerase chain reaction. Biotechnologia Habana: Medical Applications of Biotechnology. Nov. 28-Dec. 3, Havana, Cuba.

Vaughn, E. and R.M. Atlas. 1994. Bioluminescence monitoring of a conditional lethal suicide vector. American Society for Microbiology: The 94th General Meeting. May 23-27, Las Vegas, NV.

Atlas, R.M. 1995. Bioremediation of petroleum hydrocarbons. Fourth Symposium on Biotechnology. April 28-29, Montreal, Canada.

Atlas, R.M. 1995. Petroleum biodegradation and oil spill bioremediation. In: International Conference on Marine Pollution and Ecotoxicology. Jan. 22-26, Hong Kong.

Atlas, R.M., M.K. Huntington, M. Elfaki, N. Guanipa, and J.F. Williams. 1995. *Legionella* contamination in dental unit waterlines in institutional clinics. International Microbial Ecology Symposium. Aug., Santos, Brazil.

Atlas, R.M., J.F. Williams, and M.K. Huntington. 1995. *Legionella* contamination of dental unit waterlines. American Society for Microbiology: The 95th General Meeting. May 21-25, Washington, D.C.

Mackenzie, C.K., Huntington, M.K., Williams, J.F., Costanza, D.J., Detsch, S.G., and Atlas, R.M. 1995. *Legionella* contamination in dental unit waterlines: An associated fatality in a dentist. Abstract. FASEB. April, Anaheim, CA.

Williams, J.F., R.M. Atlas, M.G. Elfaki, M.K. Huntington, and N. Guanipa. 1995. *Legionella* spp. in dental unit waterlines: An associated fatality in a dentist. American Society for Microbiology: The 95th General Meeting. May 21-25, Washington, D.C.

Williams, J.F., Santiago, J.I., Guanipa, N., Huntington, M.K., and Atlas, R.M. 1995. Characterization of microbial contamination of dental unit waterlines: a potential health hazard. Society for Healthcare Epidemiology Conference. April, San Diego, CA.

Atlas, R.M. 1996. Bioremediation: Case studies. EB 96: Environmental Biomonitoring: The Biotechnology-Ecotoxicology Interface. June 6-7, Guildford, England.

Atlas, R.M. 1996. Bioremediation of oil spills. International Conference-Microbial Diversity: The Current Situation, Preservation, and Ecological Problems - ICOMID '96. Perm, Russia.

Atlas, R.M. 1996. Costs and benefits of sampling and analysis for biological weapons verification. Workshop on the Utility of Sampling and Analysis for Compliance Monitoring of the Biological Weapons Convention. Oct. 7-8, Washington, D.C.

Atlas, R.M. 1996. Evaluation of Mexican case studies. OECD Workshop Mexico '96 on Biotechnology for Water Use and Conservation. Oct. 20-23, Cocoyoc, Mexico.

Atlas, R.M. 1996. Mechanisms set in place to regulate international trade of bioremediation agents. Transboundary Movement of Living Modified Organisms Resulting from Modern Biotechnology: Issues and Opportunities for Policy Makers. July 19-20, Aarhus, Denmark.

Atlas, R.M. 1996. Measurement of microbial community diversity: genetic and species diversity responses to ecological disturbances. International Conference-Microbial Diversity: The Current Situation, Preservation, and Ecological Problems - ICOMID '96. Perm, Russia.

Atlas, R.M. 1996. Molecular approaches to microbial ecology. South African Microbiology Society Biannual Meeting. Pretoria, South Africa.

Atlas, R.M. 1996. Sampling and analysis to detect biological weapons. NATO Advanced Research Workshop: The Technology of Biological Arms Control and Disarmament. March 28-30, Budapest, Hungary.

Vaughn, E. and R.M. Atlas. 1996. Genetically modified *Escherichia coli* strain with *hok* and *lux* genes. EB 96: Environmental Biomonitoring: The Biotechnology-Ecotoxicology Interface. June 6-7, Guildford, England.

Atlas, R.M. 1997. Environmental monitoring microbial populations using naturally occurring diagnostic markers. MAREP International Conference on Marker 1 Reporter Genes in Microbial Ecology. June 14-17, Stockholm, Sweden.

Atlas, R.M. 1997. Molecular detection of pathogens in water. Science and Technology Issues Related to the Environment and Public Health Effects of Water in the Border. June 23-25, Tijuana, Mexico.

Kolli, L. and R.M. Atlas. 1997. Characterization of quinoline oxidoreductase and methylquinoline oxidoreductase in *Pseudomonas putida*. ASM General Meeting. May 4-8, Miami, FL.

Vaughn, E. and R.M. Atlas. 1997. Detection and expression of hydrocarbon degrading genes using rTPCR. ASM General Meeting. May 4-8, Miami, FL.

Atlas, R. 1997. The role of the microbiologists in the prevention of the use of biological weapons. First Forum of the International Scientific Panel on the Possible Consequences of the Misuse of Biological Sciences. December 3-6, Villa Olmo, Como, Italy.

Atlas, R. 1998. Trends in bioremediation technologies environmental pollution and best available technologies. Meeting of ICS-UNIDO. March 19-21, Trieste, Italy.

Atlas, R. 1998. Medical/biological nature of the threat of biological weapons to U.S. security. Brookings Institution. April 27, Washington, DC.

Atlas, R. 1998. Balancing biomedical research needs with protection against the misuse of microorganisms and cloned genes. General Meeting of the American Society for Microbiology. May 17- 21, Atlanta, GA.

Atlas, R. 1998. Balancing fundamental knowledge and real world experiences in teaching applied and environmental microbiology. General Meeting of the American Society for Microbiology. May 17-21, Atlanta, GA.

Atlas, R. 1998. Molecular detection of pathogens in the environment. Federation of Asia-Pacific Microbiology Societies. May 24-27, Singapore.

Atlas, R. M. 1998. Achieving Curricular Balance in Microbiological Education, Canadian Society for Microbiology Annual Meeting. June 14-17, Guelph, Canada.

Atlas, R. 1998. R&D priorities and technical issues for molecular technologies for safe drinking water. OECD Water Workshop. July 5-8, Interlaken, Switzerland.

Atlas, R. M. 1998. Bioremediation of petroleum pollutants. Sir Edward Youde Memorial Lecture. July 20, Hong Kong.

Atlas, R. 1998. The threat of biological weapons. Society for Industrial Microbiology Annual Meeting. August 9-12. Denver, CO.

Smith, K.B. and R.M. Atlas. 1998. Interactions of protozoa and *Legionella* species in dental unit water line biofilms: Implications for transmission of legionellosis. Eight International Symposium on Microbial Ecology (ISME-8). August 9-14, Halifax, Nova Scotia, Canada.

Atlas, R. 1998. Bioremediation and biocatalysis of petroleum hydrocarbons and heterocyclic compounds. International Conference on Environmental Pollution (ICEP'98). September 12-19, Moscow, Russia.

Atlas, R.M. and D.J. Grimes. 1999. Valuing International Coordination of Biological Resource Centers. OECD Workshop on Biological Resource Centers. February 17-18, Tokyo, Japan.

Atlas, R.M, D.J. Boron, W.R. Deever, A.R. Johnson, B.L. McFarland, and J.A. Meyer. 1999. Biodesulfurization of gasoline: An assessment of technical and economic feasibility and outline of R&D roadmap toward commercialization. Annual Meeting of the National Petrochemical and Refiners Association. March 21-23, San Antonio, TX.

Atlas, R.M. 1999. Teaching by example: Using case studies in microbiology teaching. Annual meeting American Society for Microbiology. May 30 - June 3, Chicago, IL.

Atlas, R.M. 2000. Biological weapons and the select agent rule. Annual meeting American Society for Microbiology. May, Los Angeles, CA.

Atlas, R.M. 2000. Bioterrorism. Annual meeting Society for Industrial Microbiology. August, San Diego, CA.

Meeks, J.C., M. Potts, J. Elhai, T. Thiel, F. Larimer, J. Lamerdin, P. Predki, and R. Atlas. 2001. The *Nostoc punctiforme* genome: preliminary analyses of a symbiotic, nitrogen-fixing and developmentally complex cyanobacterium. ASM & TIGR Conference on Microbial Genomes. Jan 28-31, Monterey, CA.

Atlas, R.M. and J. Grimes. 2001. Biological Resource Centers. Society for Industrial Microbiology Annual Meeting. August, St. Louis, MO.

Atlas, R.M. Bioterrorism and the Potential for the Misuse of Molecular Biology. 2001. Microbial Pathogenesis and Host Response. October, Cold Spring Harbor, NY.

Atlas, R.M. 2001. Working with the media in a post-September 11 environment. Council of Graduate Schools Thinking Forward: A Complex Agenda for Graduate Education. Dec. 5-8, San Diego, CA.

Atlas, R.M. 2001. National security and openness of scientific research. National Academy of Sciences Balancing National Security and Open Scientific Communication: Implications of September 11th for the Research University. Dec. 13-14, Washington, DC.

Atlas, R.M. 2001. Responding to the anthrax attacks. Annual Biomedical Research Conference for Minority Students (ABRCMS) Preparing Scientists for the 21st Century. Oct. 31-Nov. 3, Orlando, FL.

Atlas, R.M. 2001. National Security and Openness of Scientific Research. National Academy of Sciences. April 28, Washington, DC.

Atlas, R.M. 2001. Bioterrorism: Roles and responsibilities of scientific, medical, clinical, and public health communities. ASM's Annual Meeting on Infectious Diseases (ICAAC). Dec. 16-19, Chicago, IL.

Atlas, R.M. 2001. Defensa contra bioterrorismo: perspectiva desde la ecología microbiana: El caso del carbunco. Simposio International Nuevas Fronteras en ecología microbiana. Dec. 11-13, Barcelona, Spain.

Atlas, R.M. 2002. Bioterrorism: Challenges for the Academic Community. COSEPUP, National Academies. Feb. 1, Washington, DC.

Atlas, R.M. 2002. Responding to the Threat of Bioterrorism. Theobald Smith Society and ASM NJ Branch joint meeting. Feb. 12.

Atlas, R.M. 2002. Eithics, Compliance, and Responsibilities of Graduate Students and Deans in the Post 9/11 Era. Compliance Issues for Graduate Deans: Bioterrorism Legislation and Regulations. Conference of Souther Graduate Schools. Feb. 24, Baton Rouge, LA.

Atlas, R.M. 2002. Living with the Patriot Act and Other Recently-enacted Anti-terrorism Legislation. Association of American Universities Senior Research Officer's Meeting. March 12, Ponte Vedra Beach, FL.

Atlas, R.M. 2002. National Security and Openness of Scientific Research. National Academy of Sciences. April 1, Washington, DC.

Atlas, R.M. 2002. Responding to the Threat of Bioterrorism and Catastrophic Potential for Cities. Cities in Catastrophic Change. University of North Carolina. April 5, Raleigh, NC.

Atlas, R.M. 2002. Science in the Wake of the Terrorist Attacks: Future Opportunities and Constraints. Centenary of the Department of Soil Bacteriology and the 75th Anniversary of the Department of Agricultural Biochemistry Symposium. Rutgers's University. April 12, NJ.

Atlas, R.M. 2002. Strategic Response to Risks of Terrorism. Responses by Higher Education Institutions: Education, Training, Research, and Policy. University of Virginia. April 16, Charlottesville, VA.

Atlas, R.M. 2002. National Security and the Academic Community: Responding to the Threat of Bioterrorism. National Academy of Sciences. April 28, Washington, DC.

Atlas, R.M. 2002. Responding to Bioterrorism: Knowledge and Information. Microbiology Chairs Educators Meeting. May 6, Myrtle Beach, SC.

Atlas, R.M. 2002. Bioterrorism: Educators Response to the Threat. ASM Educators Meeting. University of Utah. May 17, Salt Lake City, UT.

Sotsky, J.B., M.G. Klotz and R.M. Atlas. 2002. Alkane Hydroxylase Genes Encoding Different Alkane Chain Length Utilization Capabilities in a *Pseudomonas* Isolate. ASM General Meeting. May, Salt Lake City, UT.

Atlas, R.M. 2002. Scientific Communication in the Era of Bioterrorism. Pugwash Annual meeting. Aug. 11, San Diego, CA.

Atlas, R.M. 2002. National Security and Graduate Education: Balancing Competing Claims Following the Anthrax Attack. Council of Graduate Schools Summer Meeting. July 14, Portland, OR.

Atlas, R.M. 2002. Policy Guidelines of the Publications Board of the ASM in the Handling of Manuscripts Dealing with Microbiological Sensitive Issues. Monterey Institute. Aug. 12, Washington, DC.

Atlas, R.M. 2002. Scientific Challenges of Bioterrorism. ASM Annual Regional Meeting. Oct. 16, Albany, NY.

Atlas, R.M. 2002. Combating Bioterrorism and the Potential Misuse of Biotechnology. 45th Annual Biological Safety Conference. Oct. 21, San Francisco, CA.

Atlas, R.M. 2002. Biosurveillance and Bioterrorism. ACHMM Annual Meeting. Oct. 30, Louisville, KY.

Atlas, R.M. 2002. Scientific Communication in the Age of Bioterrorism. Northern California ASM Meeting. November 2, Concord, CA.

Atlas, R.M. 2002. Advanced Science to Make Bad Bugs Worse: Implications for the Future of Scientific Discourse. BioSecurity 2002. Nov. 18, Las Vegas, NV.

Atlas, R.M. 2002. Conducting Biodefense Research: Compliance Issues. Fedreal Biodefense Reserach FY 2003. December 2, Washington, DC.

Atlas, R.M. 2002. Conducting Biodefense Research: Rules and Regulations. Annual Meeting Council of Graduate Schools. December 5, Washington, DC.

Atlas, R.M. 2003. Preserving scientific integrity and safeguarding our citizens: challenges for scientific publishers in the age of bioterrorism. NAS/CSIS Scientific Openness and National Security Workshop. January 9, Washington, DC.

Atlas, R. M. 2003. Conducting biodefense research: rules and regulations, compliance and communication issues. COGR Annual Meeting. Feb. 7, Washington, DC.

Atlas, R. M. 2003. Surviving on the front line communicating to the public through the media in times of crisis--the bioterrorism paradigm. National Association of Science Writers Annual Meeting. Feb. 13, Denver, CO.

Atlas, R. M. 2003. Conducting biodefense research: rules and regulations, compliance and communication issues. AAAS Annual Affiliates Meeting. Feb. 14, Denver, CO.

Atlas, R. M. 2003. Biosecurity--science in the balance. AAAS Annual Meeting. Feb. 15, Denver, CO.

Atlas, R. M. 2003. Challenges in conducting biodefense research. ASM Biodefense Meeting. Mar. 9, Baltimore, MD.

Atlas, R. M. 2003. Responding to the threat of bioterrorism. ASM George Mason University Student Branch Meeting. Mar. 24, Fairfax, VA.

Atlas, R. M. 2003. Preparing for bioterrorism: the role of microbiologists. Microbiology Appreciation Day. April 4, Honolulu, HI.

Atlas, R. M. 2003. Conducting bioterrorism research: new challenges for microbiologists. ASM Hawaii Branch Meeting. April 5, Honolulu, HI.

Atlas, R. M. 2003. Conducting Bioterrorism research: challenges in the biomedical sciences. AAMC Grand Meeting. April 25, Montreal, Canada.

Atlas, R. M. 2003. Interface between epidemiology and forensics. ASM Annual Meeting. May 19, Washington, DC.

Atlas, R. M. 2003. From bioremediation to bioterrorism. ASM Annual Meeting. May 19, Washington, DC.

Atlas, R.M., 2003. Bioterrorism: the latest perspective. ABRCMS. October 16, San Diego, CA.

Atlas, R.M., 2003. Deterring the threat of bioterrorism: new challenges for microbiologists. ASM Kentucky Meeting. October 10, Bowling Green, KY.

Atlas, R.M., 2003. Deterring bioterrorism by constraining access to materials and information. Pugwash. June 28, Paris, France.

Atlas, R.M., 2003. Regulatory impact on research. American Society for Virology Annual Meeting. July 15, Davis, CA.

Atlas, R.M., 2003. Responding to new regulatory frameworks. CGS. July 16, Savannah, GA.

Atlas, R.M., 2003. Bioterrorism and Biofilms: Research Challenges. ASM Biofilms Conference. November 3, British Columbia, Canada.

Atlas, R.M., 2003. National security and biological research: Where are the boundaries. New York Academy of Sciences Symposium. November 11, New York, NY.

Atlas, R.M., 2003. Biosecurity of culture collections: Emerging responsibilities of biological resource centers. Frontier Studies and International Networking of Genetic Resources in Pathogenic Microorganisms Conference. November 21, Tokyo, Japan.

Atlas, R.M., 2004. Biodefense research and emerging regulations and ethical responsibilities. 2004 Association of Medical School Microbiology and Immunology Chairs Annual Meeting. January 23, Hawaii, HI.

Atlas, R.M., 2004. National security and biological research: Science and policy. 3M Distinguished Lectureship. Western Ontario University. March 18, Ontario, Canada.

Atlas, R.M., 2004. Responsibilities of scientists in the age of terrorism. Nordlander Lecture. Cornell University. April 1, Ithaca, NY.

Atlas, R.M., 2004. Response of the life-sciences community to the biodefense challenge. The Woodrow Wilson School of Public and International Affairs Biodefense Seminar Series. Princeton University. April 23, Princeton, NJ.

Atlas, R.M., Clover, R.D., Streips, U.N. and Thompson, M.L., 2004. Use of standardized patients to teach medical students. Association of Medical School Microbiology and Immunology Chairs 10th Educational Strategies Workshop: Teaching Microbiology and Immunology to Medical Students. May 2, Myrtle Beach, SC.

Wesley, G.C., Atlas, R.M., McKinney, P.W. and Smock, W.S., 2004. Putting a face on bioterrorism for first responders. American Community Preparedness Conference: Response to Terrorism 2004. May 13, Louisville, KY.

Dugatkin, L.A., Lucas, J.S., Atlas, R.M. and Perlin, M.H., 2004. Microbial altruists: Helping cohorts survive lethal drugs. American Society for Microbiology General Meeting (104th). May 26, New Orleans, LA.

Atlas, R.M., 2004. Biosecurity concerns: Changing the face of academic research. Campus Safety Health and Environmental Management Association 2004 Annual Meeting. July 5, Chicago, IL.

Atlas, R.M., 2004. Bioterrorism, biodefense and biosecurity: What microbiologists should know. American Society for Microbiology, Special Seminar. July 12, Rio Piedras, PR.

Atlas, R.M., 2004. Bioterrorism: New challenges for infectious disease research and education. International Symposium, Threat of Infection, Microbes of High Pathogenic Potential – Strategies for Detection, Control and Eradication. July 25, Würzburg, Germany.

Atlas, R.M. and J.V. Reppy. 2004. Policies to reduce the threat of bioterrorism: Mandatory restrictions on access to dangerous pathogens and self policing of life sciences research and information to limit potential misuse. 2nd Pugwash Workshop on Science, Ethics and Society. September 11, Corsica, France.

Atlas, R.M. 2004. Promoting responsible stewardship in the biosciences: Avoiding potential abuse of research and resources. OECD International Futures Programme (IFP). September 19, Frascati, Italy.

Atlas, R.M. 2004. War of the microcosm worlds: Be concerned...be very concerned. Australian Society for Microbiology National Conference. October 1, Sydney, Australia.

Atlas, R.M. 2004. Biosecurity: An emerging response to the threat of bioterrorism. Australian Society for Microbiology National Conference. October 1, Sydney, Australia.

Atlas, R.M. 2004. Biosecurity of culture collections: Emerging responsibilities of biological resource centers. The 10th International Congress for Culture Collections. October 15, Tsukuba, Japan.

Atlas, R.M. 2004. Science for a safe and secure society—against the intentional spread of infectious diseases. Science and Technology in Society: Lights and Shadows Conference. November 15, Kyoto, Japan.

Atlas, R.M. 2004. Reducing the risk of bioterrorism: Managing personnel issues. IISS-US CBACI, The 2004 North American Regional Meeting, The Future of the Life Sciences: Reaping the Rewards and Managing the Risks. December 9, Washington, DC.

Atlas, R.M. 2005. Academic freedom and national security: Confronting the dual use dilemma. The Jerome B. Wiesner Symposium--Academic Freedom and National Security: Biological Research in the Post 9/11 Era, University of Michigan. February 14, Ann Arbor, Michigan.

Atlas, R.M. 2005. A proposed code of ethics for the life sciences. Workshop on Code of Conduct for Biological Sciences. Pacific Northwest National Labs. March 17-18, Seattle, Washington.

Atlas, R.M. 2005. Responsible stewardship of research in the life sciences: Confronting the dual use dilemma. International Forum on Biosecurity. March 20-22, Como, Italy.

Atlas, R.M. 2005. Conduct of biodefense research. Bioterrorism and the life sciences: Research and policy controversies. HHMI/CSIS Symposium. April 15, Washington, DC.

Atlas, R.M. 2005. Codes of conduct for research in the life sciences including biodefense research. Meeting of Experts, Biological Weapons Convention. June 20, Geneva, Switzerland.

Atlas R.M. 2005. Criteria for identifying dual use research--national research council perspective: Experiments of concern. National Science Advisory Board for Biosecurity Meeting. June 30, Washington DC.

Atlas, R.M. 2005. Bioterrorism: New challenges for infectious disease research and public health. Seminário Ameaças e Defesas Biológicas. July 6, Brasilia, Brazil.

Atlas, R.M., M. Perlin and L. Dugatkin. 2005. Role of group beneficial traits and frequency-dependent selection for microbial community diversity. International Conference on Microbial Diversity: Current Situation, Conservation Strategy and Biotechnological Potentialities. September 21, Perm-Kazan, Russia.

Atlas, R.M. and R. Clover. 2005. Public health preparedness for bioterrorism and the conduct of biodefense research. International Conference on Microbial Diversity: Current Situation, Conservation Strategy and Biotechnological Potentialities. September 22, Perm-Kazan, Russia.

Atlas, R.M. 2006. Pathogen research--protecting the life sciences from misuse. Conference on Forbidding Science: Balancing Freedom, Security, Innovation, & Precaution. January 13, Arizona State University, Tempe.

Atlas, R.M. 2006. Science of microbial forensics. ASM Biodefense Conference. February 15, Washington DC.

Atlas, R.M. and M. Somerville. 2006. Codes of conduct for biomedical research. AAAS Annual Meeting. February 18, St. Louis.

Atlas, R.M. and J. Reppy. 2006. Globalizing biosecurity. AAAS Annual Meeting. February 18, St. Louis.

Atlas, R.M. and R. Clover. 2006. Bioterrorism, public health preparedness, and the conduct of biodefense research. Annual Meeting South African Society for Microbiology. April 10, Pretoria.

Atlas, R.M., M. Perlin, and L. Dugatkin. 2006. Role of Group Beneficial traits and frequency-dependent selection for microbial community diversity. Annual Meeting South African Society for Microbiology. April 10, Pretoria.

Atlas, R.M. 2006. Defining the dual use dilemma and developing a culture of responsible conduct. Annual Meeting American Society for Microbiology. May 23, Orlando.

Atlas, R.M. 2006. Ethics and public policy in biodefense research. Annual Meeting American Society for Gene Therapy. June 3, Baltimore.

Atlas, R. M. 2006. Bioremediation of oil spills. International Seminar on Environmental Biotechnology, Envirotech 2006. July 6, India.

Atlas, R.M. 2006. Bioterrorism and biodefense. III National Congress of Students of Genetics and Biotechnology. August 22, Peru.

Atlas, R.M. 2006. Nature and bioterrorism - global infectious threats. Joint meeting of the Asociación Peruana de Microbiología (APM) and the Sociedad Peruana de Enfermedades Infecciosas y Tropicales (SPEIT). August 23, Peru.

Atlas, R.M. 2006. Emerging infectious diseases requiring global solutions. Third Annual Science and Technology in Society Forum: Lights and Shadows. September 11, Kyoto, Japan.

Atlas R. M. 2006. Controlling access to dual use biothreat agents: The need for international harmonization. November 13, Edinburgh Scotland.

Atlas, R.M. 2007. Zoonoses and the coming plagues. DC Press Corp. April 24, Washington, DC.

Atlas, R.M. 2007. Bioremediation through the looking glass. Ninth International In Situ and On-Site Bioremediation Symposium. May 7, Baltimore, Maryland.

Atlas, R.M. 2007. Bringing microbiology to the public and governments. May 22, Toronto, Canada.

Clark, D.R., T.M. Alton, R. McCracken, L.A. Dugatkin, R.M. Atlas, and M.H. Perlin. 2007. Following the evolution of altruists and cheaters in near-isogenic populations of *E. coli*. May 24, Toronto, Canada.

Atlas, R.M. 2007. Challenges in addressing biothreat exposures: preparing the next generation of health care professionals, policy makers, and biomedical researchers to address this issue. May 25, Toronto, Canada.

Atlas, R.M. and J. Bragg. 2007. Assessing the long-term weathering of petroleum on shorelines: uses of conserved components for calibrating loss and bioremediation potential. June 5, Edmonton, Alberta.

Atlas, R.M. 2007. Microbial forensics. 2007 Annual Scientific Meeting of the Australian Society for Microbiology. July 13, Adelaide, Australia.

Atlas, R.M. 2007. Chicken broth and other media - A short history of culture media, the universe and everything. 2007 Annual Scientific Meeting of the Australian Society for Microbiology. July 13, Adelaide, Australia.

Atlas, R.M. 2008. Biosafety and Biosecurity in Microbiological Laboratories. Promoting Biosafety and Biosecurity within the Life Sciences: An International Workshop in East Africa, Uganda National Academies, March 11, 2008. Kampala Uganda.

Atlas, R.M. 2008. Risk Communication during a National Crisis: The Bioterrorist Anthrax Scare in the U.S. Promoting Biosafety and Biosecurity within the Life Sciences: An International Workshop in East Africa, Uganda National Academies, March 12, 2008. Kampala Uganda.

Atlas, R.M. 2008. Dual Use Research: Perspectives on Codes of Conduct, Outreach, and Education. FCO Seminar on the BTWC Work Programme Topic (IV): Oversight, Education and Awareness Raising, 28 March 2008, London England.

Atlas, R.M. 2008. Assessing Biosecurity and Dual Use Research Attitudes and Actions by Life Scientists in the United States: A Survey by the U.S. National Academies and the American Association for the Advancement of Science. 2nd International Forum on Biosecurity. March 31. Budapest Hungary.

Atlas, R.M. 2008. ASM position on biosafety. American Society for Microbiology General Meeting (108th). June 2, Boston.

Atlas, R.M. 2008. ONE HEALTH: Microbiology and Research Perspectives. Congressional Briefing on Infectious Diseases: Confronting the Triple Threat - Humans, Animals, and the Environment. July 10, Washington DC.

Atlas, R.M. 2008. Criterion for Identifying Dual Use Research of Concern. NSABB Public Consultation Meeting. July 15, Bethesda MD.

Atlas, R.M. 2008. Biosafety and Biosecurity Challenges for Universities: Why, What and Who? CSEMA Annual Meeting. July 29, St. Louis.

PUBLICATIONS

Atlas, R.M. and R. Bartha. 1972. Biodegradation and mineralization of petroleum by two bacteria isolated from coastal waters. *Biotechnology and Bioengineering* 14:297–308.

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Atlas, R., W.F. Blair, W. Bowman, R. Bryson, G. Bunn, M. Coler, C. Cooper, W. Cooper, G. Cottam, R.M. Darnell, E. Deevey, Jr., C.C. Delwiche, J. Doherty, J. Easby, R.L. Edmonds, D. Fairbanks, H.E. Goeller, A. Gomez-Pompa, D. Gordon, L.D. Harris, A.D. Hasler, W. Hazen, J.J. Hickey, D. Hitchcock, S.B. Hutchison, C. Istock, D. Jenkins, H. Horgenson, C. Kaya, J. Lang, R. Lanier, J.H. Leach, M. Lloyd, J. Magnuson, K.H. Mann, W.H. Matthews, R.M. May, G. Mott, W.W. Murdoch, B.R. Orejas-Miranda, D. Pramer, R.A. Ragotzkie, F.J. Rimberg, C. Runge, J. Skujins, F. Smith, S. Stephenson, B.R. Strain, M. Stuiver, J. Teal, F.H. Tschirley, R.I. Van Hook, C.G. Wells, M. Westoby, and T. Yuill. 1972. Man in the living environment. In: J. Kadlec, L. Weimer, and P. Fuchs (eds.). *Report of the Workshop on Global Ecological Problems*. Sponsored by the Institute of Ecology. University of Wisconsin Press, Madison, WI.

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Atlas, R.M. and R. Bartha. 1973. Biodegradation of petroleum in sea water at low temperatures. *Canadian Journal of Microbiology* 18:1851–1855.

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