

Timothy E. Ford

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EDUCATION:

<u>Date</u>	<u>Discipline</u>	<u>Degree</u>	<u>Institution</u>
June, 1984	Aquatic Microbiology	Ph.D.	University of Wales, Bangor
June, 1980	Biochemistry	B.Sc.	Sussex University
August, 1976	Sciences	O.N.C.	Bromley College of Technology

ADMINISTRATIVE/ACADEMIC APPOINTMENTS:

<u>Dates</u>	<u>Title</u>	<u>Institution</u>
2017-	Professor and Chair, Environmental Health Sciences	UMass Amherst
2014-	Dean, School of Health Professions	Shenandoah University
2012-13	Interim Dean, Westbrook College of Health Professions (WCHP)	University of New England (UNE)
2011-12	Dean of Graduate Studies and Public Health	UNE
2008-11	Vice President for Research and Dean of Graduate Studies	UNE
2004-08	PI/Program Director, Montana IDeA Networks for Biomedical Research Excellence	Montana State University (MSU)
2002-08	Professor and Head, Department of Microbiology	MSU

ACADEMIC POSITIONS and MAJOR VISITING APPOINTMENTS:

<u>Dates</u>	<u>Title</u>	<u>Institution</u>
2008-14	Affiliate Professor, Microbiology	MSU
2002-08	Adj. Assoc. Professor, Environmental Health	Harvard School of Public Health (HSPH)
1999-01	Adjunct Faculty	Bermuda Biological Station for Research
1997-00	Research Fellow, Plymouth Environmental Research Center	Plymouth University, UK

1998-02	Associate Faculty, Center for Health and the Global Environment (CHGE), Harvard Medical School	Harvard University
1996-02	Founding Director, Program in Water & Health	HSPH
1996-02	Associate Professor, Environmental Health	HSPH
1992-96	Assistant Professor, Environmental Health	HSPH
1989-91	Visiting Scientist, Escuela de Biologia	Univ. Autonoma de Guadalajara, MX
1989-92	Lecturer, Environmental Health	HSPH
1987-90	Lecturer, Earth and Planetary Sciences	Harvard University

POSTDOCTORAL TRAINING:

<u>Dates</u>	<u>Title</u>	<u>Field of Research</u>	<u>Institution</u>
1987-92	Research Associate	Environmental Microbiology	Harvard University
1985-87	Postdoctoral Fellow	Environmental Microbiology	Harvard University
Summer 84/86	Postdoctoral Fellow	Aquatic Microbiology	Marine Biological Laboratory, Research Station, Alaska
Summer 84	Postdoctoral Fellow	Aquatic Microbiology	Woods Hole Oceanographic Inst. Res. Station, Quebec

AWARDS AND HONORS:

2013	Sabbatical award for service to the health professions
2009	Concurrent Professorship, Nanjing University, PR China
2007	Montana State University "ONE for ALL" achievement award
2007	Invitation to membership of Phi Kappa Phi
2006	American Society for Microbiology Division Y Plenary Lecture
2006	2006 Gen-Probe Joseph Award for exemplary leadership and service in the field of public health
2005	Microbiology Department "Colleague of the year"
2002-04	American Society for Microbiology Waksman Foundation Microbiology Lecturer
1999-	Fellow, American Academy of Microbiology
1997-98	Junior Faculty Sabbatical Award, Harvard School of Public Health
1994-99	V. Kann Rasmussen Award to support development of a course on Environmental Ethics
1979	Scholarship for the MBL, Woods Hole, Marine Ecology course
1978	Exchange scholarship to Tulane University, New Orleans

PROFESSIONAL SOCIETIES:

American Society for Microbiology
National Association of Corrosion Engineers (past membership)
American Society of Limnology and Oceanography (past membership)

EXAMPLES OF PUBLIC AND PROFESSIONAL SERVICE:

- 2016- University of Maryland, College Park USDA NIFA Center of Excellence in Water Reuse, Food and Health External Advisory Board Member.
- 2015- Pan American Health Organization Foundation Technical Advisory Group (Co-Chair)
- 2013- Public Health Research Institute (Maine) Board Member
- 2012- Rhode Island INBRE External Advisory Board Member
- 2011-14 Stakeholder, Maine's Public Health Statewide Coordinating Council; Member, subcommittee on health disparities.
- 2010-14 American Academy of Microbiology D.C. White Research and Mentoring Award Selection Committee (Chair)
- 2010-14 Chair, Maine Innovation Economy Advisory Board (Maine's NSF EPSCoR Board), and Maine's NSF EPSCoR voting member.
- 2009 Maine Center for Public Health Board of Directors.
- 2008-14 Member of the Kennebec Coastal Association (panel participant on pesticide use).
- 2008- Salish Kootenai College NIH Research Initiative for Scientific Enhancement (RISE) Program external advisory committee.
- 2007-10 Peninsula Medical School, Environment and Human Health, Science Advisory Board.
- 2007-9 American Academy of Microbiology Nominating Committee for the D.C. White Research and Mentoring Award.
- 2007-8 HOPA Mountain Native Science Network Advisory Board.
- 2005 Gallatin City-County Board of Health Sub Committee on Bioterrorism Preparedness.
- 2005-7 American Academy of Microbiology Nominating Committee for the Procter & Gamble Award for Applied and Environmental Microbiology.
- 2004-9 Member, Institute for Public Health and Water Research Board.
- 2003-8 Little Big Horn College NSF Tribal Colleges and Universities Program (T-Cup) grant external advisory committee.
- 2003-8 Gallatin Local Water Board of Directors (Vice Chair).
- 2002-8 Gallatin City-County Board of Health.
- 2000 Member, American Society for Microbiology President Elect's task force on "strategic planning to increase the effectiveness of microbiologists."
- 1999-2 Board member, Sea Change.
- 1998-2 Chairman, Scientific Advisory Committee, Sea Change.
- 1997-8 Project subcommittee member for the Water Environment Research Foundation on waterborne infectious pathogens in wastewater.
- 1994 Advisory committee on microbial contamination for the Cambridge Water Board.
- 1992/3 Advisory Committee, NASA Specialized Center for Research and Training.

EDITORIAL BOARDS AND REVIEW WORK:

- 2010-11 Invited corresponding guest editor for Ecotoxicology special edition on Environmental Health and Pollution Control.
- 2009 Invited editor for Ecotoxicology special edition on Source Water Risk Control.
- 2007 - 2008 Board Member, Microbial Ecology.

1998 - present Board Member, Environmental Engineering Science.
 1996 - present Board Member, Journal of Environmental Science and Health.
 1995 - present Board Member, Journal of Industrial Microbiology.

In addition, serve as ad hoc reviewer for a number of other scientific journals, and on study section for both national and international funding agencies, including the NIEHS Superfund program, the NIGMS INBRE and Clinical COBRE programs, and the NIH/EPA Centers of Excellence on Environmental Health Disparities Research (P50) program (2015).

CONSULTING EXPERIENCE:

2003 Consultant to Bailey & Glasser, LLP, on microbiological contamination.
 2001 Consultant to Environmental Health and Engineering on flood remediation.
 2000 Consultant on Microbiological Contamination of Standing Water from Selected Sites at the Boston Central Artery Project.
 1999- Invited consultant to Levy, Leopold & Associates, P.C. on PAH contamination (remains at an early stage of development).
 1998-2000 Consultant to The Cadmus Group, Inc., on Microbiological Contamination of Water.
 1996 Consultant to United Technologies Research Center.
 1995-96 Consultant to Sugarman, Rogers, Barshak & Cohen, P.C. on health effects from contaminated well water.
 1993-95 Consultant to Grace Construction Products on biodeterioration resistance of concrete.
 1991-93 Consultant to United Technologies on water recirculation and air-handling systems for Space Station.
 1989-92 Consultant to Ameron Corporation on biodeterioration resistance of protective coatings.

TEACHING EXPERIENCE:

<u>Date</u>	<u>Title</u>	<u>Institution</u>	<u>Experience</u>
Fall 2015-16	Introduction to the Health Professions	SU	Designed and chaired
Spring 2014	Water and Culture	UNE	Designed and taught new class in Global Awareness
Spring 2014	Plagues and Populations	UNE	Designed and taught new class in Global Awareness
Spring 2014	Rural Life in Coastal Maine	UNE	Designed and taught new class in Global Awareness
Fall 2002-8	Principles in Environmental Health Sciences	MSU	Designed and taught as a Core Class
Spring 2000	Seminar on Drinking water Quality	HSPH	Chair & lecturer, for Russian managers

Spring 1999-2000	Global Environmental Change	CHGE	Congressional short course
Spring 1999	Health and the Environment: water pollution	University of Vermont	Live broadcast panel (Continuing Ed)
Fall 1999	Biological Fouling and MIC	Altran Corporation	Workshop lecturer
Fall 1998-2001	Human Health and Global Environmental Change	HMS	Co-teach with CHGE
Fall 1998	Industrial Biofouling and Biocorrosion	University of Pretoria South Africa	International Workshop Lecturer
Summer 1998	Risk Assessment and Environmental Decision Making	HSPH	Workshop lecturer
Spring 1998-2001	Water Pollution	HSPH	Co-designed and co-taught new course
Fall 1997	Industrial Biofouling and Biocorrosion	Institut für Wasserchemie und Wassertechnologie	International Workshop (lecturer)
Spring 1997-9	New Disease Course	HSPH	Co-taught with New Disease Group
Spring 1995-0	Topics in Environmental Ethics	Harvard University	Co-designed and co-taught new course
Spring 1993-7	Environmental Microbiology I	HSPH	Designed and taught new course
Fall 1991-2	Lecturer, environmental microbiology	Harvard University	Designed and taught graduate section
Fall, 1987-90	Lecturer, environmental microbiology	Harvard University	Co-taught class lecture and laboratory
Fall, 1983	Tutor, biochemistry	U.C.N.W., North Wales	Course developer and teacher
Summer, 1980	Teaching Assistant, marine ecology	M.B.L., Woods Hole	Course developer and teacher

Tutorials and guest lectures were also regularly provided for courses in New and Resurgent Disease; Introduction to Environmental Health; Properties of Environmental Contaminants; Analytical Chemistry; Environmental Microbiology, Environmental Geochemistry and Environmental Management.

MAJOR RESEARCH INTERESTS:

1. Community Based Participatory Research
2. Epidemiology of waterborne disease
3. Global environmental health
4. Ecotoxicological models
5. Molecular approaches to examine microbial diversity as a biomarker for environmental stress
6. Microbial involvement in pollutant cycling, transformation and bioaccumulation
7. Influence of environmental stress on microbial diversity in natural environments
8. Role of biofilms in survival and proliferation of pathogens in water distribution systems

9. Role of microbial biofilms in corrosion of metals and biodeterioration of materials

RESEARCH AND OTHER GRANT ACTIVITY:***Past Funded Grants***

<u>Source</u>	<u>Role</u>	<u>Dates</u>	<u>Total Amount</u>
Shingleton Foundation <i>Technologically-Enhanced Education for Health Professionals</i> A grant to purchase an Anatomage Table, an advanced touch-interactive education tool consisting of software and hardware displaying life-size human gross anatomy.	Proj. Coord.	04/28/15	\$55,000
EPA - RD833706 <i>Community Based Risk Assessment of Exposure to Contaminants via Water Sources on the Crow Reservation in Montana</i> The goal of this study is work with the Crow Tribe environmental health steering committee to model multimedia exposure to contaminants in water and wastewater, to communicate risk and to develop mitigation strategies.	PI	06/01/09 - 05/31/14	\$329,532
NSF - 1125672 <i>Acquisition of a Scanning Spectral Confocal Microscope for Multidisciplinary Research, Teaching and Outreach</i> Equipment to serve the University of New England community in providing a centralized imaging facility for research, teaching and outreach activities.	PI	09/01/11 - 08/31/14	\$433,938.00
NIH/NCRR P20 RR016455 <i>Montana IDeA Network for Biomedical Research Excellence</i> The goal of the Montana INBRE program was to build expertise in infectious disease and environmental health research throughout the State. The program supported research at all Montana's four year and tribal colleges. (PI status transferred to colleague after leaving MSU in 2008, resubmission awarded to 2014).	PI	08/01/04 - 06/30/09	\$16,600,000
NCRR P20RR016455 (suppl) <i>Limited Competition for IDEA Networks of Biomedical Research Excellence (INBRE)</i> Supplemental funding to provide equipment and technical support to upgrade of MSU's Bioinformatics Teaching and Research Facility; provide equipment to expand biomedical research in MSU's Laser Capture Microdissection and Functional Genomics Facility; and provide equipment to the Salish Kootenai Tribal College in support of its collaborative research programs and student training.	PI	09/19/2007	\$230,825
NIH/NCMHD P20 MD002317 <i>Consortium for Community-Based Research in Native American Health,</i> Main Research Project: <i>A CBPR partnership to address Apsaalooke (Crow) community cancer risks from contaminated water and food</i> (PI status transferred to colleague after leaving MSU in 2008).	Project PI	10/01/07 - 09/30/12	\$1,175,143

- NIH RIMI Subcontract PI 07/01/07 - 06/30/12 \$505,814
Expanding Research at Little Big Horn College on the Crow Reservation
 The goal of the RIMI program was to build research infrastructure at Little Big Horn (Tribal) College with mentorship from Montana State University (PI status transferred to colleague after leaving MSU in 2008).
- EPA R833830 co-PI 03/01/08-02/28/13 \$599,996
Assessment of Microbial Pathogens in Drinking Water using Molecular Methods Coupled with Solid Phase Cytometry
 A laboratory-based research project involving MSU and Little Big Horn College to establish novel methods to determine the occurrence of waterborne microbial contaminants (co-PI status transferred to consultant after leaving MSU in 2008).
- EPA FP916936 major advisor 09/01/08-08/31/11 ~\$120,000
Pathogen Detection in Source and Drinking Water: A Community Based Approach to Exposure Assessment on the Crow Reservation.
 EPA STAR Graduate Student Fellowship for doctoral student Crystal Richards to develop molecular techniques to monitor environmental pathogens (*Helicobacter*, *Legionella*, *Mycobacterium*) in drinking water biofilms.
- EPA F6D30222 major advisor 09/01/07-08/31/10 \$111,327
Exposure Assessment to Environmental Contaminants on the Crow Reservation: A Community Based Participatory Research Project
 EPA STAR Graduate Student Fellowship for doctoral student Mari Eggers to conduct CBPR research in environmental health on the crow reservation, MT
- NSF 0321334 PI 07/01/03 – 06/30/06 \$408,268.00
MRI: Acquisition of a Laser Capture Microdissection Microscope and Functional Genomics Facility for Microbial Ecology and Developmental Biology
 This grant provided MSU with instrumentation for laser microdissection of biological samples and for genomic analysis.
- State of Montana PI 2007-08 \$1,000,000
Medical Laboratory Scientist Training Program
 This grant provided start-up funding to support a medical laboratory sciences training program in the Department of Microbiology at MSU.
- NSF EPSCoR minigrant PI 2006-08 ~\$10,000
Ecology of Mycobacterium paratuberculosis in Yellowstone National Park
 This provided partial support for a postdoc to begin sampling for *M. paratuberculosis* in the Park.
- NCRR 1 06 RR020117-01A1 Proj. Coord. 8/24/05- \$3,991,951
Renovation of the Cooley Microbiology Laboratories
 As project coordinator, I prepared this application to the NIH/NCRR Research Facilities Improvement Program, which was then submitted under the Provost's name to demonstrate institutional

commitment. The grant was awarded, but was subsequently rewritten after I left MSU in response to the Federal Stimulus, to create a 17 million dollar renovation for a state-of-the-art biomedical research facility.

NIH P20RR016455 Pilot Proj., PI 09/25/03-07/26/04 \$20,000 (est)
Analytical equipment for the microbiology lab, and investigation of waterborne diseases associated with water-use patterns in Varanasi, India

Two pilot projects from the Montana Network for Biomedical Research Opportunities program, precursor to the Montana INBRE program, above.

EPA R828036 PI 03/25/00-03/21/04 \$516,679
Mycobacterium avium Complex in Drinking Water: Detection, Distribution, and Routes of Exposure
 Objectives were to develop improved methods for detecting MAC in drinking water samples, develop methods for the detection of MAC in biofilms, and determine the prevalence of MAC in municipal drinking water distribution systems and at sites of end user exposure.

NIH 5R21AI061006 Subcontract PI 07/01/04-06/30/06 \$25,000
Genetic Analysis of Mycobacterial Biofilm Formation
 Subcontract from the Seattle Biomedical Research Institute to partially support doctoral student research on MAC biofilms.

NIEHS P42ES005947 Co-I 04/01/00-03/31/06 \$931,500
Superfund Toxic Substances: Exposure and Disease: Project 9–Improving Ecological Risk Assessment: Development and Application of Methods to Determine the Bioavailability of Contaminants in Aquatic Sediments - New Bedford SF Site
 Development and field-testing of sampling devices that determine the free activity of metal and organic contaminants in aquatic sediments.

NIEHS P42ES005947 Project Leader 04/01/00-03/31/06 \$1,222,722
Superfund Toxic Substances: Exposure and Disease: Project 10–Assessment of Biological Responses to Organic and Metal Contaminants in New Bedford: Methods for Monitoring Ecological Health
 Examination of the effects of environmental contaminants of the benthic community of New Bedford Harbor and development of a suite of exposure biomarkers that can be used to evaluate ecosystem health.

NIEHS P42ES005947 Project Leader 04/01/92-03/31/00 \$2,000,000 (est)
Superfund Toxic Substances: Exposure and Disease: Project 2- Assessment of Contaminant Concentrations and Ecologic Implications
 Evaluation of the interrelationships between the microbial community and pollutants in the New Bedford Harbor area, an EPA designated Superfund Site, and to obtain a comprehensive evaluation of the health of the ecosystem.

Asia Center (Harvard) PI 2001-2002 \$10,000 (est)
Health risks associated with exposure to contaminants at the Clark Airforce Base, The Philippines
 Pilot project funding was received from the Asia Center to support doctoral student research on

contaminant exposure in the Philippines.

NIEHS P42ES005947 Pilot Proj., PI 12/1/00-6/30/01 \$15,000
Chlorination By-products in Drinking Water and Neonatal Health
 Center-funded pilot study in the city of Cherepovets, Russia, to assess exposures of pregnant women to major classes of disinfection-by-products (DBPs) via ingestion of drinking water and inhalation and dermal absorption during showering.

UCE (Harvard) PI 2000-2001 \$10,000 (est)
Health risk assessment of drinking water in Chennai, India
 Pilot project funding was received from the University Committee on the Environment to begin an assessment of drinking water quality in Chennai, India.

Provost/UCE (Harvard) PI 1999-01 \$10,000 (est)
Interfaculty Collaboration on Water and Health
 Funding to support Ford's program in Water and Health and to host workshops, debates and support speakers.

World Bank PI water proj. 1997-01 \$300,000 (est)
Drinking water quality in selected Russian Cities
 This program was funded by a World Bank environmental health loan to the Russian Federation. The water project focused on drinking water and health in the City of Cherepovets, including equipping a water quality lab for pathogen detection in environmental and clinical samples.

NIEHS PI 1999 \$32,500
International Conference on Oceans and Human Health
 Grant to support a conference on Oceans and Human Health at the Bermuda Biological Station for Research

NIH P42ES005947 Pilot proj., PI 1996-97 \$10,000 (est)
Mycobacterium avium Complex in biofilms
 Center-funded pilot study to examine survival and proliferation of MAC in drinking water biofilms.

Envitec, Inc. PI 1994-97 \$15,000 (est)
Monitoring metal contamination
 A series of three small grants to support Spectacle Island Monitoring, Boston Harbor Monitoring and MWRA Outfall Monitoring for toxic metals.

EPA PI & co-Chair 1995 ~\$100,000
Global Issues in Microbiological Water Quality for the Next Century
 Grant to support American Academy of Microbiology Scientific Colloquium, held in Ecuador in 1995

NASA Subcontract PI 1994-95 \$100,000 (est)
Health Risks Associated with Water Recycling
 Examination of pathogens that accumulate in biofilms forming on pipe surfaces in water recycling

8. Wallace CC, Yund PO, Ford TE, Matassa KA, Bass AL. Increase in antimicrobial resistance in bacteria isolated from stranded marine mammals of the Northwest Atlantic. *Ecohealth*. 2013 Jun;10(2):201-10. PMID: 23636484.
9. Hamner S, McInerney K, Williamson K, Franklin MJ, Ford TE. Bile salts affect expression of *Escherichia coli* O157:H7 genes for virulence and iron acquisition, and promote growth under iron limiting conditions. *PLoS One*. 2013;8(9):e74647. PMCID: PMC3769235.
10. Hamner S, Pyke D, Walker M, Pandey G, Mishra RK, Mishra VB, Porter C, Ford TE. Sewage pollution of the River Ganga: an ongoing case study in Varanasi, India. *River Systems*. 2013; 20:157-167.
11. Bass AL, Wallace CC, Yund PO, Ford TE. Detection of *Cryptosporidium* sp in two new seal species, *Phoca vitulina* and *Cystophora cristata*, and a novel *Cryptosporidium* genotype in a third seal species, *Pagophilus groenlandicus*, from the Gulf of Maine. *J Parasitol*. 2012 Apr;98(2):316-22. PMID: 22017467.
12. Cheng S, Wu B, Chen Y, Zhao F, Huang K, Liu S, Yin J, Jia S, Shi P, Li A, Sun J, Zhang Z, Zhang R, Li W, Li M, Cheng L, Zhang X, Cui Y, Zhang Y, Zhang R, Gu JD, Ford T. Cancer related toxicogenomics Index designed for predicting cancer risk from Yantze River source of drinking water in Nanjing area. (in Chinese) *Sciencepaper Online* @ <http://www.paper.edu.cn/html/releasepaper/2012/05/271>. 2012-05-16
13. Wu B, Zhang R, Cheng SP, Ford T, Li AM, Zhang XX. Risk assessment of polycyclic aromatic hydrocarbons in aquatic ecosystems. *Ecotoxicology*. 2011 Jul;20(5):1124-30. PMID: 21431315.
14. Ford TE. The role of biofilms in device-related infections - book review. *The Lancet. Infectious diseases*. 2011; 11:271-271.
15. Ford TE, Bass AL, Cheng S, Cherr GN, Cole B, Fairbairn E, Gu JD, Halbrook RS, Löffler FE, Madsen EL, McGinn NA. EHPC 2010: sharing knowledge on environmental health for risk mitigation. *Ecotoxicology*. 2011 Jul;20(5):937-9. PMID: 21448624.
16. Li M, Ford T, Li X, Gu JD. Cytochrome cd1-containing nitrite reductase encoding gene nirS as a new functional biomarker for detection of anaerobic ammonium oxidizing (Anammox) bacteria. *Environ Sci Technol*. 2011 Apr 15;45(8):3547-53. PMID: 21417444.
17. Richards CL, Buchholz BJ, Ford TE, Broadaway SC, Pyle BH, Camper AK. Optimizing the growth of stressed *Helicobacter pylori*. *J Microbiol Methods*. 2011 Feb;84(2):174-82. PMCID: PMC3034813.
18. Wu B, Ford T, Gu JD, Zhang XX, Li AM, Cheng SP. Computational studies of interactions between endocrine disrupting chemicals and androgen receptor of different vertebrate species. *Chemosphere*. 2010 Jul;80(5):535-41. PMID: 20546840.
19. Cummins C, Doyle J, Kindness L, Lefthand MJ, Bear Dont Walk UJ, Bends AL, Broadaway SC, Camper AK, Fitch R, Ford TE, Hamner S, Morrison AR, Richards CL, Young SL, Eggers MJ. Community-based participatory research in Indian country: improving health through water quality research and awareness. *Fam Community Health*. 2010 Jul-Sep;33(3):166-74. PMCID: PMC3070444.
20. Bouskill NJ, Barker-Finkel J, Galloway TS, Handy RD, Ford TE. Temporal bacterial diversity associated with metal-contaminated river sediments. *Ecotoxicology*. 2010 Feb;19(2):317-28. PMID: 19771511.
21. Ford TE, Colwell RR, Rose JB, Morse SS, Rogers DJ, Yates TL. Using satellite images of environmental changes to predict infectious disease outbreaks. *Emerg Infect Dis*. 2009 Sep;15(9):1341-6. PMCID: PMC2819876.

22. Zhang Y, Zhang X, Wu B, Zhao D, Li M, Cui Y, Ford T, Cheng S. Degradation of benzo(a)pyrene in Yangtze River source water with functional strains. *Ecotoxicology*. 2009 Aug;18(6):742-7. PMID: 19499330.
23. Wu B, Zhang X, Zhang X, Yasun A, Zhang Y, Zhao D, Ford T, Cheng S. Semi-volatile organic compounds and trace elements in the Yangtze River source of drinking water. *Ecotoxicology*. 2009 Aug;18(6):707-14. PMID: 19507025.
24. Zhang X, Wu B, Zhang Y, Zhang T, Yang L, Fang HH, Ford T, Cheng S. Class 1 integronase gene and tetracycline resistance genes tetA and tetC in different water environments of Jiangsu Province, China. *Ecotoxicology*. 2009 Aug;18(6):652-60. PMID: 19495963.
25. Cheng S, Ford T. Special issue on source water risk control Preface. *Ecotoxicology*. 2009 Aug;18(6):643-6. PMID: 19504346.
26. Lachmayr KL, Kerkhof LJ, Dirienzo AG, Cavanaugh CM, Ford TE. Quantifying nonspecific TEM beta-lactamase (blaTEM) genes in a wastewater stream. *Appl Environ Microbiol*. 2009 Jan;75(1):203-11. PMID: PMC2612200.
27. Geier H, Mostowy S, Cangelosi GA, Behr MA, Ford TE. Autoinducer-2 triggers the oxidative stress response in *Mycobacterium avium*, leading to biofilm formation. *Appl Environ Microbiol*. 2008 Mar;74(6):1798-804. PMID: PMC2268301.
28. Bouskill NJ, Barnhart EP, Galloway TS, Handy RD, Ford TE. Quantification of changing *Pseudomonas aeruginosa* sodA, htpX and mt gene abundance in response to trace metal toxicity: a potential in situ biomarker of environmental health. *FEMS Microbiol Ecol*. 2007 May;60(2):276-86. PMID: 17374126.
29. Hamner S, Broadaway SC, Mishra VB, Tripathi A, Mishra RK, Pulcini E, Pyle BH, Ford TE. Isolation of potentially pathogenic *Escherichia coli* O157:H7 from the Ganges River. *Appl Environ Microbiol*. 2007 Apr;73(7):2369-72. PMID: PMC1855664.
30. Freeman R, Geier H, Weigel KM, Do J, Ford TE, Cangelosi GA. Roles for cell wall glycopeptidolipid in surface adherence and planktonic dispersal of *Mycobacterium avium*. *Appl Environ Microbiol*. 2006 Dec;72(12):7554-8. PMID: PMC1694245.
31. Bouskill NJ, Handy RD, Ford TE, Galloway TS. Differentiating copper and arsenic toxicity using biochemical biomarkers in *Asellus aquaticus* and *Dreissena polymorpha*. *Ecotoxicol Environ Saf*. 2006 Nov;65(3):342-9. PMID: 16253326.
32. Hamner S, Tripathi A, Mishra RK, Bouskill N, Broadaway SC, Pyle BH, Ford TE. The role of water use patterns and sewage pollution in incidence of water-borne/enteric diseases along the Ganges river in Varanasi, India. *Int J Environ Health Res*. 2006 Apr;16(2):113-32. PMID: 16546805.
33. Ford T. Emerging issues in water and health research. *J Water Health*. 2006;4 Suppl 1:59-65. PMID: 16493900.
34. Riederer AM, Thompson KM, Fuentes JM, Ford TE. Body weight and water ingestion estimates for women in two communities in the Philippines: the importance of collecting site-specific data. *Int J Hyg Environ Health*. 2006 Jan;209(1):69-80. PMID: 16373204.
35. Riederer AM, Shine JP, Danan LM, Ford TE. Concentrations of lead and mercury in multimedia samples from homes near the former Clark Air Base, Philippines. *Sci Total Environ*. 2005 Apr 1;341(1-3):53-69. PMID: 15833241.
36. Ford T, Jay J, Patel A, Kile M, Prommasith P, Galloway T, Sanger R, Smith K, Depledge M. Use of ecotoxicological tools to evaluate the health of New Bedford Harbor sediments: a microbial biomarker approach. *Environ Health Perspect*. 2005 Feb;113(2):186-91. PMID: PMC1277863.

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39. Egorov AI, Naumova EN, Tereschenko AA, Kislitsin VA, Ford TE. Daily variations in effluent water turbidity and diarrhoeal illness in a Russian city. *Int J Environ Health Res.* 2003 Mar;13(1):81-94. PMID: 12745350.
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181. Ford TE, Maki J, Mitchell R. Metal binding bacterial exopolymers and corrosion processes. CORROSION/87, National Association of Corrosion Engineers; Paper No 380:7pp. 1987.
182. Ford TE, Walch M, Mitchell R. Corrosion of metals by thermophilic microorganisms. CORROSION/86, National Association of Corrosion Engineers; Paper No 123:8pp. 1986.

183. Lock MA, Ford TE. Heat output studies on epilithon from rivers and streams in the Matamek region. In Naiman RJ, ed., The Matamek Annual Report for 1983, Woods Hole Oceanographic Institution, Technical Report WHOI-84-29:82-86. 1984.
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185. Ford T, Mercer E. Population density, size distribution and home range of the American eel (*Anguilla rostrata*) in the Great Sippewissett Salt Marsh. Biological Bulletin. 1979; 157:368.

Published Privately

186. Ford TE, Morris R, Bernstein A. Drinking water contamination. In Chivian E, Bernstein A (eds) Environmental Health: Briefing Book for the Kerry Campaign. Boston, MA: Private Publication; 2004.
187. Ford TE (ed) Rising Tide: Scholarship and Research at the University of New England 2010/2011. <http://dune.une.edu/risingtide/4>. 2010.
188. Ford TE (ed) Rising Tide: Scholarship and Research at the University of New England 2011/2012. <http://dune.une.edu/risingtide/3>. 2011.
189. Ford TE. Bell Family History: Being a compilation of several documents and photographs that trace the history of the Bells from early days in Cumberland to the 20th century. Much of the information is focused on Journals and Memoirs kept by Jonathan Bell between 1848 and 1855. Published privately in Kennebunk, Maine, USA on February 5, 2012. 373pp
190. Ford TE. The Monypenny Saga: a compilation of the writings of Colonel Robert D'Arbly Gybbon Monypenny, with additional letters, memoirs, commentary and photographs. Published Privately in Kennebunk, Maine, USA in August 16, 2013. 621pp. (The transcriptions of memoirs and letters, together with scanned photographs and negatives in this book, have become the basis of a book published in May 2015, edited by Karen Farrington, "Brothers in Arms," Pen and Sword Books)

Dean's Blogs

- 2015 Lives, Money And Peace Of Mind – New Meningitis Vaccines Offer Us Hope. Feb 13. <http://www.su.edu/health/lives-money-and-peace-of-mind-new-meningitis-vaccines-offer-us-hope/>
- 2015 So, You Really Want to Eat Out? Feb 9. <http://www.su.edu/health/so-you-really-want-to-eat-out/>
- 2015 To Vaccinate Or Not To Vaccinate: That Is (No Longer) The Question. Feb 9. <http://www.su.edu/health/to-vaccinate-or-not-to-vaccinate-that-is-no-longer-the-question/>
- 2014 Ebola – a cry for help, or a call for action? Oct 14. <http://www.su.edu/health/ebola-a-cry-for-help-or-a-call-for-action/>

INVITED LECTURES (since 2003)

- 2014 "Biofilms as Ideal Environments for Pathogen Survival and proliferation; Knowledge Gaps and Key areas for Research." American Society for Microbiology Virtual Speaker

- Program. August.
- 2014 "International Perspectives on Waterborne Disease." American Society for Microbiology Virtual Speaker Program. July.
- 2014 Invited panel presentation on drinking water and public health for a Symposium on "Environmental Justice: At the Crossroads with Public Health, Climate Change and Conservation," McKean Center for the Common Good at Bowdoin College. February 8.
- 2013 "Global Studies in Water and Health: Implications for Maine," Invited Plenary, 2013 Maine Water Conference, Augusta, Maine. March 19.
- 2012 "Comprehensive Community-Based Risk Assessment of Exposure to Water-Borne Contaminants on the Crow Reservation," Invited EPA Webinar, October 17.
- 2012 Invited Lecture tour in China, September 20-28, 2012; lectures presented at Nanjing University, Inner Mongolia University, Harbin Normal University, and Beijing Normal University.
- 2012 "Establishing Extramural Global Health Initiatives," Invited panel presentation, NIAID'S Sixth Annual Fellows Retreat, March 30.
- 2012 "Water and Health: global and US perspectives," Invited Seminar, Tufts University, School of Engineering, Medford, MA, February 7.
- 2011 "Environmental pathogens, emerging pathogens and biofilms in microgravity," Invited lecture NASA Microbiology Workshop, Johnson Space Center, Houston, TX, April 19.
- 2011 "All Things Water: Microbial contamination of drinking water: US and global perspectives," Invited seminar, University of Wisconsin Milwaukee, School of Freshwater Sciences: February 11.
- 2011 "Microbial contamination of drinking water: US and global perspectives," Invited keynote, The 16th Annual Toxicology Symposium, University of Michigan School of Public Health: February 10.
- 2010 "Global Studies on Water and Health," Invited Keynote address at the Inaugural Atlantic Canada W.A.T.E.R. Symposium. March 26-27.
- 2009 "Community Based Risk Assessment of Exposure to Contaminants via Water Sources on the Crow Reservation in Montana," Invited Webinar EPA STAR Program and National EPA-Tribal Science Council. November 18.
- 2009 "Water, Health and Society," Invited Lecture Series, Center for Global Humanities, University of New England: October 26.
- 2009 "Burden of Waterborne Disease," One of three invited lectures at Nanjing University, PR China, as part of an International Forum on Environmental Health and Pollution Control. October 11-16.
- 2009 "Water and health: a Perspective on India," Asia and the Environment Conference, St Joseph's College, Philadelphia, PA, March 20-21.
- 2008 "Perspectives on Water and Health," Second International Workshop on Environmental Health and Pollution Control, Nanjing University, PR China, October 20-22.
- 2006 "Pollutant Biodegradation and Environmental Health," International Workshop on Environmental Health and Pollution Control, Nanjing University, PR China, October 25.
- 2006 "Source water and Environmental Health," International Workshop on Environmental Health and Pollution Control, Nanjing University, PR China, October 23.
- 2006 "Helping to Navigate Career Pathways in Biomedical Research," Invited Panel Presentation. 1st Biennial National IDEa Symposium of Biomedical Research Excellence,

- Washington, D.C., July 20-22.
- 2006 "Public Health Microbiology Today: from Sanitation to Metagenomics," Division Y Lecture. 106th American Society for Microbiology General Meeting, Orlando, FL, May 21-2506.
- 2006 "International studies on Water and Health," Indo-US Joint Partnership Meeting on Water, Sanitation and Environmental health, Kolkata, India, February 21-22.
- 2006 "Biofilm Research," Indo-US Joint Partnership Meeting on Water, Sanitation and Environmental health, Kolkata, India, February 21-22.
- 2005 "Water and Health," Sustainable Michigan Endowed Project (SMEP) Academy 2005: Sustainability: Theory and Applications. Dearborn, Michigan, November 18-19.
- 2005 "Water and Health," Native Waters, Browning, Montana, August 17.
- 2005 "Environmental Health on Montana's Reservations," Native Nexus Conference, Bozeman, MT, April 14, 2005
- 2004 "Water Threats." Southeastern Center for Emerging Biologic Threats, Food & Waterborne Infectious Disease Threats Symposium, Emory Conference Center - Atlanta, GA, November 16.
- 2004 "Emerging Issues in Water & Health Research," Institute for Public Health and Water Research, San Francisco, June 27.
- 2004 "Biofilms as ideal environments for pathogen survival and proliferation: knowledge gaps and key areas for research," Waksman Foundation Speaker. Indiana Regional ASM Meeting, April 16.
- 2004 "Biofilms as ideal environments for pathogen survival and proliferation: knowledge gaps and key areas for research," Waksman Foundation Speaker. Arizona Regional ASM Meeting, February 27.
- 2003 "Public Health Consequences of Mycobacteria in Biofilms" American Society for Microbiology Biofilm Conference, Victoria, British Columbia, November 3.
- 2003 "Environmental Pathogens," Invited Discussion Leader. American Society for Microbiology Biofilm Conference, Victoria, British Columbia, November 3.
- 2003 "Global Drinking Water Challenges," Environmental Defense Science Day on Water, New York, September 18.
- 2003 "Environmental Health." Visions for Sustainable Development, Bozeman, MT, April 17.
- 2003 "Waterborne Disease, Global and US Perspectives," Waksman Foundation Speaker. Procter & Gamble/Ohio Regional ASM Meeting, April 11.
- 2003 "Waterborne Disease, Global and US Perspectives," Waksman Foundation Speaker. Florida Regional ASM Meeting, February 21.

OTHER INVITED TALKS, PANELS, WORKSHOPS AND CHAIRED SESSIONS:

- 2014 Ebola Panel Discussion. Shenandoah University, Dec 2 (Chair).
- 2012 Moderator and Presenter, Examining Critical Issues in Science Education: Research, Practice and Policy and its Role in Health Inequality. NIH Science of Eliminating Health Disparities Summit. National Harbor, MD, December 18.
- 2012 Invited Chair for the Near- and Far-term Forecasting and Fecal Indicators and pathogens sessions at the Gordon Research Conference on Oceans and Human health, UNE, June 3-8.

- 2009 Invited Participant in the Johnson Foundation Freshwater Forum, Working Session #5: Examining U.S. Freshwater Systems and Services: Public Health Threats and Solutions, December 15–16, Wingspread Conference Center, Racine WI.
- 2007 Invited participant and discussion leader, National Summit on Coping with Climate Change, University of Michigan, Ann Arbor, MI, May 8-10.
- 2007 "Environmental Change and Infectious Disease." Division III Symposium, American Society for Microbiology Annual Meeting, Toronto, May (Co-chair).
- 2007 Invited Participant: American Academy of Microbiology Scientific Colloquium, "The Uncharted Microbial World: Microbes and Their Activities in the Environment." Seattle, Washington, February 9-11.
- 2006- Academic Program Chairman, International Workshops on Environmental Health and Pollution Control, Nanjing University, P.R. China (2006, 2008, 2009, 2010, 2012).
- 2006 Invited Participant: American Academy of Microbiology Scientific Colloquium, "Clean Water: What is Acceptable Microbial Risk?" Tucson, Arizona, October 6-8.
- 2006 Invited EPA CCL Microbial Expert Focused Workshop: Phase II, Arlington, VA, June 6-8.
- 2004-7 Montana INBRE annual faculty networking forums (held at a different tribal college each year).
- 2004-7 Montana INBRE annual research conference (Chair).
- 2004 International Colloquium - Protecting Public Health in Small Water Systems, MSU, May 9-12 (Chair).
- 2002 Invited Participant: EPA/WHO Expert Workshop "Pathogenic Mycobacteria in Water," Guildford, UK, September 18-20.
- 2001 Debate on "Environmental Determinants of Autism" with Sea Change, Harvard University (Chair).
- 2001 Steering Committee member: American Academy of Microbiology Scientific Colloquium on "The Global Burden of Infectious Diseases Through the Gastrointestinal Tract: A Critical Scientific Assessment of Exposure," Colloquium held in Galway, Ireland, February 15-18, 2002.
- 2001 "Environmental Health: Our Global Challenge" (with John Spengler), Center for International Development Student Program Events: Bhumi/EAC Dinner Series: Open only to undergraduates - lotteried, April 5.
- 2001 Plenary speaker and moderator: Water Environment Federation (WEF)/ITT Industries forum, "Water and the Next Generation: a discussion on countermeasures to the water crisis," held at the UN on World Water Day, March 22.
- 2000 Debate on "The Genetic Revolution and Its Role in Developing Countries" with Sea Change, Harvard University, April 28 (Chair).
- 2000 Invited Participant: American Academy of Microbiology Scientific Colloquium, "Re-evaluation of Microbial Water Quality: Powerful New Tools for Detection and Risk Assessment," Amelia Island, Florida, March 3-4.
- 2000 Congressional briefing on "Field of Genes: What do we know, What do we need to know?" with Sea Change, Washington, DC, January 24 (Chair).
- 1999 Congressional briefing on "Water, Population and Human Health: Confluence of Trends Threatens World Health" Washington, DC, June 24 (Chair).
- 1999 Invited Participant, Environmental Justice Workshop, Harvard University, April 11-13
- 1998 Congressional briefing on "Increased Flooding Events and Climate Change:

- Consequences for Human Health," Washington, DC, June 3 (Chair).
- 1998 Research Seminar on "Drinking Water Biofilms and Waterborne Disease." The American Society for Microbiology annual meeting, Atlanta, GA (Chair).
- 1997 Invited Speaker on "Confronting Emerging Diseases," Harvard School of Public Health 75th Anniversary Symposium, April 27-29.
- 1997 Conference on Emerging Infections: Origins, Ecology, Costs, and Prevention. Harvard School of Public Health, June 11-13 (Co-chair & Rapporteur).
- 1997 Invited Presentation to the Anglican, Global and Ecumenical Studies at the Episcopal Divinity School on "Resurgent Waterborne Diseases," Cambridge, MA, February 21.
- 1996/7 "Sea Change" panel to assess competing technologies for treatment of New Bedford Harbor sediments, televised public meeting (Chair).
- 1996 Round table on "Microbiological Safety of Water." The American Society for Microbiology annual meeting, New Orleans, LA (Chair).
- 1996 Public Health Rounds, Harvard School of Public Health, "Priorities in Water Quality: Microbial vs. Chemical Risks," March 20.
- 1995 "Sea Change" panel on design of New Bedford Harbor remediation strategies, siting of disposal facilities and neighborhood issues, televised public meeting (Chair).
- 1995 Invited speaker on changes in ecosystem health for the Boston Theological Institute/AAAS participatory conference on "Consumption, Population & the Environment," November 9-11.
- 1995 American Academy of Microbiology Scientific Colloquium, "Global Issues in Microbiological Water Quality for the Next Century," Guayaquil, Ecuador, April 1995 (Co-chair).
- 1995 Invited Speaker, Panel on Florida drinking water problems, organized by the Stevens Institute of Technology, convened in Palm Beach, Florida, February 1.
- 1994 Invited Lister Rounds Speaker on "Environmental Change and Waterborne Disease" Department of Surgery, Toronto Hospital, December 1.
- 1994 Invited Speaker for "Eat, Drink, and be Wary: How Safe are our Air, Food, and Water, Harvard School of Public Health, October 14.
- 1993 Appearance on "Chronicle" to explain risks to human health from misuse of humidifiers.
- 1993 Special Session on "New Perspectives for Genetic Ecotoxicology." NAPA Conference on Genetic and Molecular Ecotoxicology. Yountville, CA (Chair).
- 1992 Research Seminar on "Microbiologically Influenced Corrosion." The American Society for Microbiology annual meeting, New Orleans, LA (Co-chair).
- 1992 Research Seminar on "Aspects of Drinking Water Microbial Ecology." The American Society for Microbiology annual meeting, New Orleans, LA.
- 1990 Research Symposium on "Mechanisms." The International Congress for Microbially Influenced Corrosion, Knoxville, TN (Chair).
- 1989 Research Symposium on "Advances in Microbial Corrosion Research." CORROSION/89, National Association of Corrosion Engineers, New Orleans, LA (Co-chair).

University-related service activities

SU

2016 Chair, search committee for the director of Occupational Therapy
 2015 Chair, search committee for the founding director for graduate public health programs
 2015 Chair, search committee for the Dean of Nursing
 2015 Member, NoVaHealthFORCE roundtable (ensuring the future of Northern Virginia's Health Care Workforce)
 2015- University liaison with the INOVA Health system on programs in inter-professional health and education in Haiti
 2014- Valley health System - Community Partnerships for Health Sciences Education
 2014- Advisor on inter-professional education (initiated and provided leadership for SU's first inter-professional case competition. The winning team competes in the CLARION national case competition at the University of Minnesota)

UNE

2008-14 Ad hoc on many university committees
 2008-14 UNE representative on:
 Maine Biomedical Research Coalition (treasurer and secretary)
 Maine Marine Research Coalition
 Biomedical Association of Maine
 Graduate School of Biomedical Sciences (U. Maine)
 Maine Innovation Economy Advisory Board (elected Chair, 2010)

MSU

2006-08 Faculty Reading Group
 2006-08 Humanities Center & Storey Mansion Fundraising committee
 2006-08 Internal Reviewer, Math Department
 2006 Clinical Research Development Program (reviewer and advisor)
 2005-06 Chair, search committee for the Head of Veterinary Molecular Biology
 2005-06 Search Committee, L&S Development Officer
 2005 Search Committee, Director Molecular BioSciences Program
 2005 Initiated the concept and then chaired the Selection Committee for the "Presidential Medal for Global and Visionary Leadership" An award that "recognizes and honors individuals of extraordinary vision and accomplishment whose contributions to the betterment of society and the human condition are both exceptional and broad-reaching."
 2004-08 Montana INBRE-BRIN Steering Committee
 2004-08 Montana INBRE-BRIN Mentoring Board
 2004 Search committee for the Associate Dean of L&S
 2004 IDC Distribution Committee
 2003-08 Honorary degree committee
 2003-08 NSF EPSCoR Advisory Committee
 2003-08 Hughes Executive Committee
 2003-05 Chair, search committee for the Director of the Center for Biofilm Engineering
 2003-04 Search committee for the Dean of Nursing
 2002-08 Microbiology department graduate and undergraduate Curriculum committees
 2002-08 Center for Biofilm Engineering Advisory Committee
 2002-08 Human subjects committee
 2002-08 Biology Curriculum Task Force

2002-03 Search committee for the Dean of Letters & Science
2002-04 Scientific Advisory committee to the BRIN
2002-04 Montana BRIN committee on transfer issues
2002-03 Search committee for the Director of WWAMI and the Division of Health Science
HSPH
2000-02 HSPH Disciplinary Committee
1999-02 Advisory Committee on Continuing Professional Education
1996-98 Advisory Committee for the Center for Health and the Global Environment, HMS
1996-98 Advisory Council on the Natural Sciences, Center for Study of World Religions
1992-02 Harvard Committee on the Environment
1992-02 Harvard Seminar on Environmental Values
1992-02 Harvard Working Group on New and Resurgent Infectious Diseases