

# MINNESOTA JOURNAL OF LAW, SCIENCE & TECHNOLOGY

VOLUME 12

Winter

ISSUE 1

## FACULTY BOARD OF EDITORS

### Faculty Editor-in-Chief

LEILI FATEHI, JD  
*Interim Associate Director for  
Research & Education,  
Consortium on Law and Values in Health,  
Environment & the Life Sciences and  
Joint Degree Program in Law, Health & the Life  
Sciences;  
Adjunct Associate Professor,  
Law School;*

### Faculty Executive Editor

SUSAN M. WOLF, JD  
*McKnight Presidential Professor of Law, Medicine  
& Public Policy, Law School; Medical School;  
Center for Bioethics;  
Chair, Consortium on Law and Values in Health,  
Environment & the Life  
Sciences, Director, Joint Degree Program in Law,  
Health & the Life Sciences*

## FACULTY ASSOCIATE EDITORS

JEFFREY P. KAHN, PHD, MPH  
*Maas Family Endowed Chair in Bioethics;  
Director, Center for Bioethics,  
Academic Health Center*

DANIEL J. PHILIPPON, PHD  
*Associate Professor,  
Department of English,  
College of Liberal Arts*

WILLIAM MCGEVERAN, JD  
*Associate Professor,  
Law School*

HARI OSOFSKY, JD  
*Associate Professor;  
Associate Director of Law, Geography &  
Environment, Consortium on Law and Values in  
Health, Environment & the Life Sciences, Law  
School*

## FACULTY EDITORIAL ADVISORY BOARD

KENNETH B. BECKMAN, PHD  
*Director, Biomedical Genomics Center; Associate  
Professor, Department of Genetics, Cell Biology,  
and Developmental Biology*

JEFF BENDER, DVM, MS, DACVPM  
*Director of Center for Animal Health and Food  
Safety; Associate Professor,  
Veterinary Public Health*

SUSANNA BLUMENTHAL, JD, PHD  
*Associate Professor,  
Law School*

STEPHEN J. CRIBARI, ESQ  
*Distinguished Visiting Professor  
and Practitioner,  
Law School*

FRANCESCA CUTHBERT, PHD  
*Professor and Interim Head, Department of  
Fisheries, Wildlife and Conservation,  
College of Food, Agricultural and Natural  
Resource Sciences*

CARL ELLIOTT, MD, PHD  
*Professor, Center for Bioethics; Professor,  
Department of Pediatrics, University of Minnesota  
Medical School; and Professor, Department of  
Philosophy,  
College of Liberal Arts*

JOHN R. FINNEGAN, JR., PHD  
*Professor and Dean,  
School of Public Health*

GARY M. GARDNER, PHD  
*Professor, Department of Horticultural Science;  
College of Food, Agricultural & Natural Resource  
Sciences*

MICHAEL GEORGIEFF, MD  
*Director, Center for Neurobehavioral Development;  
Professor of Pediatrics and Child Psychology;  
Director, Division of Neonatology; Faculty  
Member, Institute of Child Development*

APOSTOLOS P. GEORGOPOULOS, MD, PHD  
*Director, Brain Sciences Center; Regents  
Professor; American Legion Brain Sciences Chair;  
McKnight Presidential Chair in Cognitive  
Neuroscience; Professor of Neuroscience,  
Neurology and Psychiatry; and Director, Center for  
Cognitive Sciences*

MICHELE GOODWIN, JD, LL.M.  
*Everett Fraser Professor of Law,  
Law School;  
Faculty Member, Medical School, School of Public  
Health*

RALPH HALL, JD  
*Distinguished Visiting Professor,  
Law School*

BRADLEY C. KARKKAINEN, JD  
*Henry J. Fletcher Professor,  
Law School*

STEVE KELLEY, JD  
*Senior Fellow and Director,  
Center for Science, Technology & Public Policy,  
Humphrey Institute of Public Affairs*

ALEXANDRA B. KLASS, JD  
*Associate Professor, Law School*

MARY JO KREITZER, PH.D, RN, FAAN  
*Director, Center for Spirituality  
and Healing;  
Associate Professor,  
School of Nursing*

STEVEN MILES, MD  
*Professor, Center for Bioethics;  
Professor, Department of Medicine, Medical  
School*

RUTH OKEDIJI, LL.B, LL.M, SJD  
*William L. Prosser Professor,  
Law School*

PHILIP PARDEY, PH.D  
*Director, International Science and Technology  
Practice and Policy (InSTePP) Center; Professor,  
Department of Applied Economics, College of  
Food, Agricultural & Natural Resource Sciences*

STEPHEN POLASKY, PH.D  
*Fessler Lampert Professor of  
Ecological/Environmental  
Economics, Departments of  
Applied Economics and Ecology,  
Evolution, and Behavior,  
Graduate Program in Conservation Biology*

LAURA GURAK, PH.D, MS  
*Professor and Chair, Department of Writing  
Studies, College of Liberal Arts;  
Director, Internet Studies Center;  
Faculty Fellow, Law School*

WILLIAM D. HUESTON, DVM, PH.D  
*Director, Center for Animal  
Health & Food Safety;  
Professor, College of Veterinary  
Medicine;  
School of Public Health*

DAN S. KAUFMAN, MD, PH.D  
*McKnight Land-Grant Professor,  
Assistant Professor, Department  
of Medicine and Stem Cell Institute,  
Medical School*

SHAUN KENNEDY, BSE-CH.E  
*Director, National Center for Food Protection and  
Defense; Assistant Professor of Veterinary  
Population Medicine; and Director of Partnerships  
and External Relations, College of Veterinary  
Medicine*

JENNIFER KUZMA, PH.D  
*Associate Professor; Associate Director,  
Center for Science, Technology  
& Public Policy,  
Humphrey Institute of Public Affairs*

BONNIE S. LEROY, MS, CGC  
*Director, Graduate Studies in Genetic Counseling;  
Associate Professor, Genetics, Cell Biology &  
Development, College of Biological Sciences*

AMY MONAHAN, JD  
*Associate Professor,  
Law School*

MICHAEL T. OSTERHOLM, PH.D, MPH  
*Director, Center for Infectious Disease  
Research and Policy;  
Professor, School of Public Health*

RONALD L. PHILLIPS, PH.D  
*Regents' Professor and McKnight  
Presidential Chair in Genomics  
Department of Agronomy and Plant  
Genetics, College of Food, Agricultural and  
Natural Resource Sciences*

MICHAEL SADOWSKY, PH.D  
*Director, The BioTechnology Institute; Professor,  
Department of Soil, Water and Climate*

JONATHAN SLACK, PHD  
*Director, Stem Cell Institute  
Tulloch Chair in Stem Cell Biology, Genetics, and  
Genomics,  
Medical School*

WILLIAM A. TOSCANO, JR., PHD  
*Director, Center for  
Environment and Health Policy  
Professor and Head, Division of Environmental  
Health Sciences,  
School of Public Health*

BRIAN VAN NESS, PHD  
*Co-Director, Institute of Human Genetics; and  
Professor and Department Head, Dept. of Genetics,  
Cell Biology and Development*

ELIZABETH WILSON, PHD  
*Assistant Professor, Center for Science, Technology  
& Public Policy, Humphrey Institute of Public  
Affairs*

DEBORAH L. SWACKHAMER, PHD  
*Co-Director, Water Resources Center  
Professor, Environmental Health Sciences, School  
of Public Health*

LEIGH TURNER, PHD  
*Associate Professor, Center for Bioethics; School of  
Public Health; and College of Pharmacy*

JOHN E. WAGNER, MD  
*Director, Umbilical Cord Blood Transplant  
Program, Cancer Center, Scientific Director of  
Clinical Research of the Blood and Marrow,  
Transplantation Program and Stem Cell Institute  
Professor of Pediatrics*