



2008-09

## ANNUAL REPORT



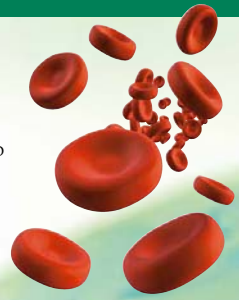
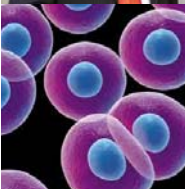
**Joint Degree Program**  
in Law, Health & the Life Sciences™

**Consortium on Law and Values**  
in Health, Environment & the Life Sciences™

### 2008-09 HIGHLIGHTS:



- Celebrated 10<sup>th</sup> Anniversary of the Joint Degree Program in Law, Health & the Life Sciences and Consortium on Law and Values in Health, Environment & the Life Sciences
- 10<sup>th</sup> Anniversary Gala Dinner with welcome by University of Minnesota President Robert H. Bruininks and keynote address by Prof. Arthur Caplan, PhD (University of Pennsylvania)
- Robina Fund co-sponsored the 10th Anniversary Conference on "What's Next in Law, Health & the Life Sciences? Debating Openness, Access & Accountability," with keynote address by Prof. Larry Gostin, JD (Georgetown University)/Johns Hopkins University)
- NIH-funded grant on managing incidental findings in human subjects research produced a groundbreaking symposium in the *Journal of Law, Medicine & Ethics*
- NSF-funded grant on oversight for nanobiotechnology yielded publications in *Risk Analysis*, *Journal of Law Medicine & Ethics*, *Food and Drug Law Journal*, *Nanoethics*, *Environmental Science & Technology* and elsewhere
- Began work on two new grants funded by the John T. and Catherine D. MacArthur Foundation's Law and Neuroscience Project and the Law School's Robina Research Fund for Law, Public Policy & Society (LaPPS)
- Joint Degree Program enrolled 7 new students for a total of 39 in 2008-09
- Joint Degree Program graduated 11 students
- Deinaud Memorial Lecture on Law & Medicine presented by Prof. M. Gregg Bloche, JD, MD (Georgetown University)
- Lecture Series on "Synthetic Biology: The Science, Ethics & Law of Creating New Life"
- Visiting Consortium Professor: David Faigman, JD (UC Hastings College of the Law)
- Awarded over \$70,000 in Intramural grants





*Cover images include:*

Regent Patricia Simmons, MD, Prof. Barbara Koenig, PhD, and Prof. Susan Wolf, JD, at the 10th Anniversary Gala Dinner.

University of Minnesota Robert H. Buininks delivers the Welcome Address at the 10th Anniversary Gala Dinner.

Dean David Wipman delivers the Welcome Address at the 10th Anniversary Conference.



UNIVERSITY OF MINNESOTA

**10<sup>th</sup>**  
**Anniversary**

Joint Degree Program  
in Law, Health & the Life Sciences

1999-2009

Consortium on Law and Values  
in Health, Environment & the Life Sciences



## 2008-09 ANNUAL REPORT

Consortium on Law and Values in Health, Environment & the Life Sciences  
Joint Degree Program in Law, Health & the Life Sciences  
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The University's mission, carried out on multiple campuses and throughout the state, is threefold: research and discovery, teaching and learning, and outreach and public service.

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*Inside cover images include:*

Clockwise from the top:  
Profs. Ronald L. Phillips, PhD, and Deborah Swackhamer, PhD (University of Minnesota), at the 10th Anniversary Gala Dinner.

Senior Vice President for Academic Affairs and Provost E. Thomas Sullivan.

2008-09 Visiting Consortium Professor David L. Faigman, JD (UC Hastings College of the Law), with commentators Prof. Susanna Blumenthal, JD, PhD, and Eugene Borgida, PhD (University of Minnesota).





**Joint Degree Program**  
in Law, Health & the Life Sciences\*

**Consortium on Law and Values**  
in Health, Environment & the Life Sciences\*



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**10<sup>th</sup>**

**Anniversary**

**Joint Degree Program**  
in Law, Health & the Life Sciences

**1999-2009**

**Consortium on Law and Values**  
in Health, Environment & the Life Sciences



# Message from the Director and Chair



PROFESSOR SUSAN M. WOLF, JD

McKnight Presidential Professor of Law,  
Medicine & Public Policy

Faegre & Benson Professor of Law  
Professor of Medicine

Director, Joint Degree Program in Law,  
Health & the Life Sciences

Chair, Consortium on Law and Values in  
Health, Environment & the Life Sciences

Dear Colleagues:

The **Consortium on Law and Values in Health, Environment & the Life Sciences** and the **Joint Degree Program in Law, Health & the Life Sciences** are proud to present our 2008-09 Annual Report. We summarize our 2008-09 accomplishments, share the excitement of our 10th anniversary celebration in March, and offer a glimpse of our plans for the next 10 years, including our April 15, 2009 conference on "The Challenge of Governing Nanobiotechnology: Reinventing Oversight for the 21st Century." We give thanks to the many scholars, students, leaders, and funders who have enabled us to accomplish so much.

In 2008-09 the University of Minnesota's **Consortium on Law and Values in Health, Environment & the Life Sciences** and **Joint Degree Program in Law, Health & the Life Sciences** achieved a tremendous milestone—our 10th anniversary. These programs began with a University-wide planning process in 1998-99, greatly aided by then-Provost Robert Bruininks and then-Dean Tom Sullivan. Colleagues from throughout the University and eminent members of our broader community met to dream up something that no other university had built—a genuinely cross-disciplinary program to tackle the most challenging problems looming in the 21st century: issues in health, the life sciences, and the environment. These are issues at the intersection of law, ethics, policy, science, and medicine; only a highly innovative and interdisciplinary effort can make genuine progress. In June of 1999 the Regents of this University approved our Joint Degree Program to recruit and train the next generation of thinkers and practitioners who will confront these problems. And in Summer 2000, we launched a University-wide Consortium of centers and programs to pool expertise and resources to work on these problems and catalyze needed national debate.

We have accomplished a huge amount in the last 10 years and in 2008-09 continued to move forward with great success. Our research yielded groundbreaking results and publications. We are gratified our research is funded by the National Institutes of Health (NIH), the National Science Foundation (NSF), The Greenwall Foundation, the John T. and Catherine D. MacArthur Foundation's Project on Law and Neuroscience, and the Law School's Robina Fund for Research on Law, Public Policy & Society (LaPPS). We have built a top journal, the *Minnesota Journal on Law, Science & Technology*. We have established the country's leading Joint Degree Program for students combining a law degree with one of 23 other professional and graduate degrees. We have awarded over \$800,000 in intramural funds to catalyze University-wide work on the societal implications of the life sciences. We have brought to campus the top thinkers from around the country and beyond. We have established a national reputation for our programs and the University of Minnesota, as the place to turn for incisive, honest debate on these crucial issues and cutting-edge solutions.

Under the leadership of President Robert Bruininks and Senior Vice President for Academic Affairs and Provost E. Thomas Sullivan we have been able to forge new paths in interdisciplinary research and scholarship. We are pleased that the **Consortium** remains a **Presidential Interdisciplinary Academic Initiative** and delighted that Senior Vice President and Provost E. Thomas Sullivan continues to lead this Presidential Initiative.

The **Consortium** and the **Joint Degree Program** remain unique in the nation. They have grown into preeminent national programs. We are proud of our research, scholarship, policy work, community engagement, and student training. Please accept our thanks for being part of this effort. We look forward to continuing our collaboration in the next 10 years!

Appreciatively,

Susan M. Wolf

# Update on the Consortium on Law and Values

In 2008-09 the Consortium and Joint Degree celebrated our 10<sup>th</sup> Anniversary. We are gratified by what we have achieved in our 10<sup>th</sup> Anniversary year and look forward to new accomplishments.

## In 2008-09 the Consortium celebrated our 10th Anniversary and reached new levels of success:

- We completed the third year of work on our 4-year project funded by a National Science Foundation (NSF) grant, **"NIRT: Evaluating Oversight Models for Active Nanostructures and Nanosystems: Learning from Past Technologies in Societal Context,"** resulting in many publications including a forthcoming symposium in the *Journal of Law, Medicine & Ethics* in December 2009;
- The **Consortium and Joint Degree Program** sponsored 7 events in 2008-09: the Lecture Series on Law, Health & the Life Sciences on **"Synthetic Biology: The Science, Ethics & Law of Creating New Life"** with Prof. Robert Friedman, PhD (J. Craig Venter Institute), Prof. Arti Rai, JD (Duke University Law School), and Prof. Drew Endy, PhD (Stanford University); the **Deinard Memorial Lecture Series on Law & Medicine**, co-sponsored with the Center for Bioethics, and generously supported by the Deinard family and the law firm of Leonard Street and Deinard, featuring Prof. M. Gregg Bloche, JD, MD (Georgetown University) speaking on **"The Emergent Logic of Health Reform"**; the 10<sup>th</sup> Anniversary Gala Dinner with keynote address by Prof. Arthur Caplan, PhD (University of Pennsylvania); our 10<sup>th</sup> Anniversary Conference on **"What's Next in Law, Health & the Life Sciences? Debating Openness, Access & Accountability"**; and Visiting Consortium Prof. David L. Faigman, JD (Hastings College of the Law) on **"Science in the Supreme Court: Hypotheses & Hypocrisy in Constitutional Decision Making"**;
- Through our **Request for Proposals (RFP)** process, the Consortium competitively awarded 1 faculty grant, 6 student grants, and 1 grant to **Consortium** members and **Joint Degree Program** partner programs for a total of \$71,729 in intramural funding for 2008-09;
- The *Minnesota Journal of Law, Science & Technology* (**MJLST**) published volume 10 in 2008-09 and was pleased to offer advance online publication of an article by Zach W. Hall, PhD (formerly of The California Institute of Regenerative Medicine (CIRM)) on **"Stem Cell Research in California: The Intersection of Science, Politics, Culture, and Law."** *MJLST's* ranking continued to rise in 2008-09. Washington and Lee University School of Law's Ranking of Law Journals rated *MJLST* 4 out of 68 for the Health, Medicine, Psychology & Psychiatry category in 2008, and 11 out of 38 for the Science, Technology & Computing category; 13 out of 53 for the Intellectual Property category; and 10 out of 79 for the Environment, Natural Resource & Land Use category;

For more information on ranking, visit [www.mjlst.umn.edu](http://www.mjlst.umn.edu).

*MJLST* continues to be ranked as one of the top two journals for submissions in the Environmental Law category through ExpressO the online submission service of the Berkeley Electronic Press. *MJLST* also continued to offer open access of its articles, publishing articles online simultaneously with our print publication; and

- In 2008-09 The Consortium updated our website [www.lifesci.consortium.umn.edu](http://www.lifesci.consortium.umn.edu) with new features. The Consortium's website serves as a gateway to the members of the Consortium and provides central access to information relating to the University of Minnesota's work on the societal implications of problems in health, environment, and the life sciences. The site provides information about each of the member centers and programs, including their research and publications, as well as information on the Consortium's intramural grants, news, conferences, and lectures.

### In 2009-10, the Consortium and JDP are presenting 5 events:

- Lecture Series on Law, Health & the Life Sciences on **"Biobanking: How the Internet and Computer Capacity Are Changing Policy Questions and Answers in Biomedicine"** featuring Prof. Kenneth Goodman, PhD (University of Miami), Prof. Andrea Braverman, PhD (University of Medicine and Dentistry of New Jersey), and Prof. Alexander Capron, LLB (University of Southern California)
- Annual Conference on **"Developing Oversight Approaches to Nanobiotechnology: The Lessons of History"**
- Deinard Memorial Lecture on Law & Medicine on **"What's Wrong with Race-Based Medicine?"** by Prof. Dorothy Roberts, JD (Northwestern University)



JDP Advisory Board Member Martha Brand, JD, Prof. Alex Klass, JD, and Dean David Wippman at the Consortium's 10th Anniversary Gala Dinner.



# Consortium on Law and Values in Health, Environment & the Life Sciences



## Consortium Members

The Consortium on Law and Values in Health, Environment & the Life Sciences crosses all colleges at the University of Minnesota. The Consortium coordinates among and builds on the strengths of 18 University centers and programs, establishing a national identity for the University of Minnesota as a leading institution working on the societal implications of developments in health, environment, and the life sciences. The Consortium brings these programs together to address those interdisciplinary questions that are difficult for any one program to tackle alone. The 18 constituent programs are:



**Joint Degree Program**  
in Law, Health & the Life Sciences<sup>®</sup>

UNIVERSITY OF MINNESOTA



AcademicHealthCenter  
UNIVERSITY OF MINNESOTA



center FOR SCIENCE,  
TECHNOLOGY & PUBLIC POLICY



Stem Cell  
INSTITUTE



BIOMEDICAL  
GENOMICS  
CENTER



ihg

The **Joint Degree Program** is led by founding Director, Prof. Susan Wolf, JD, McKnight Presidential Professor of Law, Medicine & Public Policy; Faegre & Benson Professor of Law; Professor of Medicine; and Faculty Member, Center for Bioethics. From 2000-09, the Associate Director of the Joint Degree Program was Prof. Colin Campbell, PhD, Department of Pharmacology. Beginning in 2009-10 the Associate Director will be Professor William Toscano, Jr., PhD, Environmental Health Sciences, School of Public Health. The University of Minnesota's Joint Degree Program in Law, Health & the Life Sciences is training students to become experts in the legal, ethical, and policy problems posed by health, the sciences, and the environment in the 21st century: [www.jointdegree.umn.edu](http://www.jointdegree.umn.edu).

The **Center for Bioethics'** mission is to advance and disseminate knowledge concerning ethical issues in health care, biotechnology, and the life sciences. The Center conducts original interdisciplinary research, offers educational programs and courses, fosters public discussion and debate through community outreach activities, and assists in the formulation of public policy. The Center is directed by Prof. Jeffrey Kahn, PhD, MPH, Maas Family Chair in Bioethics and Professor, Department of Medicine, School of Public Health, and the Department of Philosophy: [www.bioethics.umn.edu](http://www.bioethics.umn.edu).

The **Center for Science, Technology & Public Policy** is led by Senior Fellow Steve Kelley, JD, Humphrey Institute. The Center fosters understanding of the role of science and technology in our society, especially in relation to economic growth, health, the environment, education, and national security. The Center also supports research and teaching in the Humphrey Institute's MS degree in Science, Technology, and Environmental Policy: [www.hhh.umn.edu/centers/stpp](http://www.hhh.umn.edu/centers/stpp).

The **Stem Cell Institute** works to further basic research in stem cell and developmental biology, translate basic research into novel therapies for genetic and degenerative disorders, apply new stem cell-based therapies in the clinic, advance and disseminate knowledge concerning stem cell biology, foster and increase public awareness of stem cells and their potential clinical applications, and address ethical issues in stem cell biology and therapeutics. The Institute is directed by Prof. Jonathan Slack, PhD, Tulloch Chair in Stem Cell Biology, Genetics & Genomics. It is represented in the Consortium by Prof. Slack and Associate Director, Prof. Dan Kaufman, MD, PhD. [www1.umn.edu/stemcell](http://www1.umn.edu/stemcell).

The **Biomedical Genomics Center** was created as a part of the University of Minnesota Genomics Initiative to advance genomics research as it applies to human and animal health and to foster inter-collegiate programs. The Center is using the vast amounts of information provided by sequencing of human, animal, and microbial genomes to find new ways to treat and prevent disease. The Biomedical Genomics Center is directed by Prof. Kenneth Beckman, PhD. [www.bmgc.umn.edu](http://www.bmgc.umn.edu).

The **Institute of Human Genetics** is committed to educating and training students for opportunities in biomedical research and clinical practice. Research areas at the Institute include behavioral genetics, clinical genetics, gene therapy, genetic epidemiology, developmental biology, microchemical facility, and molecular genetics. The Institute is directed by Prof. Harry Orr, PhD, Professor of Laboratory Medicine and Pathology. Prof. Orr and Prof. Bonnie LeRoy, MS, CGC, Director of the Graduate Program in Genetic Counseling, represent the Institute at Consortium meetings and events. [www.med.umn.edu/ihg/](http://www.med.umn.edu/ihg/).

The **Center for Infectious Disease Research & Policy (CIDRAP)** is led by Director Prof. Michael Osterholm, PhD, MPH, Division of Environmental Health Sciences, School of Public Health, Adjunct Professor, Medical School, and Director, NIH-supported Center of Excellence for Influenza Research Surveillance within CIDRAP; Associate Director Jill DeBoer, MPH; and Director of Operations Elaine Collison, MPA. The Center's mission is to prevent illness and death from infectious diseases through epidemiologic research and the rapid translation of scientific information into real-world practical applications and solutions. The Center's work supports the development of public policy reflecting current biomedical knowledge and promotes sound practices among both health care professionals and the public. A primary focus of the Center in the last several years has been enhancing pandemic influenza preparedness in the United States and internationally through avian influenza virus research, providing critical information to businesses, and identifying and sharing promising practices among public health authorities. [www.cidrap.umn.edu](http://www.cidrap.umn.edu).



The **Center for Animal Health & Food Safety** is led by Director Prof. Jeffrey Bender, DVM, MS, Dipl. ACVPM; Associate Director Linda Valeri, MBA; and Director of Education Prof. Scott Wells, DVM, PhD, Dipl. ACVPM. Profs. Bender and Wells have appointments in the School of Public Health and the College of Veterinary Medicine. The Center plays a leadership role in assuring food safety and security from the farm to the consumer. It does this regionally, nationally, and internationally through aggressive risk communication, applied research, integrated animal and public health surveillance, expanded educational programs, leadership development, and facilitation of creative prevention and quality assurance strategies involving producers, processors, distributors, retailers, food service, and consumers. The Center also directs the Veterinary Public Health Residency Program and provides services to government, industry, and non-governmental organizations through its Public Practice service unit. [www.cahfs.umn.edu](http://www.cahfs.umn.edu).



The **National Center for Food Protection and Defense** is a University-based research center supported by the U.S. Department of Homeland Security bringing together national academic, industry, and public-sector partners to develop ways of enhancing our nation's capability to protect the food supply from intentional contamination. The Center is led by Director Assistant Prof. Shaun Kennedy, BSE, College of Veterinary Medicine, and Director Emeritus Prof. Frank Busta, PhD, Senior Science Advisor. [www.ncfpd.umn.edu](http://www.ncfpd.umn.edu).



The **Center for Neurobehavioral Development** is directed by Prof. Michael Georgieff, MD, Department of Pediatrics, Division of Neonatology, and Institute of Child Development. The center's Associate Director is Prof. Megan Gunnar, PhD, Institute of Child Development. The Center studies the developing human brain and its relationship to normal and abnormal development. The Center trains graduate students, funds research projects, and serves as a site for non-medical developmental clinics. [www1.umn.edu/cnbd/](http://www1.umn.edu/cnbd/).



The **Center for Cognitive Sciences** is an interdisciplinary research center serving as the foundation for research in the cognitive sciences at the University of Minnesota. Its members represent 14 University departments and 6 colleges. The Center provides its members with opportunities to share their insights on recent advances and develop interdisciplinary research collaborations. The Center's primary mission is the facilitation of interdisciplinary research and teaching in cognitive science. The Center is directed by Prof. Apostolos P. Georgopoulos, MD PhD, Department of Neuroscience. [www.cogsci.umn.edu](http://www.cogsci.umn.edu).



The **Center for Environment & Health Policy** is directed by Prof. William Toscano, PhD, head of the School of Public Health's Division of Environmental Health Sciences. The Center is funded by grants from the U.S. Environmental Protection Agency, Legislative Commission on Minnesota Resources, Minnesota Pollution Control Agency, Minnesota Offices of Environmental Assistance, and the University of Minnesota. The Center focuses on improving assessment, management, and communication of environmental health risks and fostering environmental policy decisions. <http://enhs.umn.edu/files/research>.





The **Microbial and Plant Genomics Institute** was established in 2006 when the University's Center for Microbial and Plant Genomics and Plant Molecular Genetics Institute merged. The Microbial and Plant Genomics Institute includes faculty who are interested in the successful development and application of genomics and resulting societal and environmental impact. The Co-Directors for MPGI are Profs. Neil Olszewski, PhD, Department of Plant Biology, and Michael Sadowsky, PhD, Department of Microbiology. [www.mpgi.umn.edu](http://www.mpgi.umn.edu).



The **Water Resources Center** conducts and funds research and outreach related to water resources in the state of Minnesota. The graduate program in Water Resources Science also is administered by the WRC. As the focal point for a broad range of research, education, and information exchange related to water resources, the WRC links faculty and student researchers with practicing professionals and citizens to address water resources issues. This facilitates effective delivery of research results to citizens and decision makers and opens new avenues for multidisciplinary and interagency partnerships. The Center is co-directed by Prof. Deborah L. Swackhamer, PhD, Environmental Health Sciences and Humphrey Institute, and Faye Sleeper, MA, College of Food, Agricultural and Natural Resource Sciences. [wrc.umn.edu/aboutwrc/index.html](http://wrc.umn.edu/aboutwrc/index.html).



The **International Science & Technology Practice and Policy Center (InStePP)** undertakes economic research on strategic science and technology policies. The Center analyzes private and governmental behavior affecting the conduct, performance, and economic consequences of R&D worldwide. Prof. Philip G. Pardey, PhD, Department of Applied Economics, directs this Center. [www.instepp.umn.edu](http://www.instepp.umn.edu).

INSTITUTE ON THE  
ENVIRONMENT



[environment.umn.edu](http://environment.umn.edu)

The **Institute on the Environment (IonE)** is led by Director Prof. Jonathan Foley, PhD. The Institute's research is organized around a set of overarching themes that will change over time as solutions to existing problems are found and new challenges arise. The current themes are: Climate Change Adaptation and Mitigation, Renewable Energy and the Environment, Landscapes and Watersheds, and Human and Ecosystem Health. The Institute on the Environment is a portal for environment-related teaching, research, and outreach at the University of Minnesota. It spans all campuses in the University system and all colleges and departments on each campus. [www.environment.umn.edu](http://www.environment.umn.edu).



The **Healthy Food, Health Lives Institute's** mission is to increase and sustain the University's impact in the interdisciplinary arena of food, agriculture, and health by building the University's capacity in research, learning, and community engagement. The priority areas for focus are food safety, prevention of obesity and chronic disease, and food policy. Within these priority areas, of special importance is the integration of agriculture and medicine. The major goal of the HFHL Institute is to utilize and help build the strengths of the University of Minnesota in the area of food and health to advance scientific and public knowledge and influence public policy. The Institute is led by Prof. Mindy S. Kurzer, PhD, Food Science and Nutrition. [www.hfhl.umn.edu/](http://www.hfhl.umn.edu/).



UNIVERSITY OF MINNESOTA

Center for Spirituality & Healing  
Driven to Discover™

The **Center for Spirituality & Healing** established in 1995, is a nationally recognized leader in integrative medicine, bringing together biomedical, complementary, cross-cultural, and spiritual care. The Center provides interdisciplinary education, clinical care, and outreach integrating evidence-based research to establish a new model of health care in the 21st century. The Center is led by founding Director Prof. Mary Jo Kreitzer, PhD, RN, FAAN, School of Nursing. [www.csh.umn.edu](http://www.csh.umn.edu).

We congratulate all Consortium members for their considerable achievements over the last 10 years and thank them for collaborating to make the Consortium unique in the nation. For more information on Consortium members, visit [www.lifesci.consortium.umn.edu](http://www.lifesci.consortium.umn.edu).



## Consortium Members--Selected Faculty



Prof. Susan M. Wolf, JD

### **Joint Degree Program in Law, Health & the Life Sciences**

**Prof. Susan M. Wolf, JD**  
McKnight Presidential Professor of Law, Medicine & Public Policy

Faegre & Benson Professor of Law  
Professor of Medicine  
Professor of Law  
Chair, Consortium on Law and Values in Health, Environment & the Life Sciences  
Director, Joint Degree Program in Law, Health & the Life Sciences  
To read more about Prof. Wolf, visit  
[www.lifesci.consortium.umn.edu/bio.susan.wolf](http://www.lifesci.consortium.umn.edu/bio.susan.wolf).

For more information on the Joint Degree Program, visit  
[www.jointdegree.umn.edu](http://www.jointdegree.umn.edu).



Prof. Jeffrey Kahn, PhD, MPH

### **Center for Bioethics**

**Prof. Jeffrey Kahn, PhD, MPH**  
Maas Family Endowed Chair in Bioethics  
Director, Center for Bioethics  
Professor of Medicine, School of Public Health, and Philosophy

For more information on Prof. Kahn, visit  
[www.ahc.umn.edu/bioethics/facstaff/kahn\\_j/](http://www.ahc.umn.edu/bioethics/facstaff/kahn_j/).  
For more information on the Center for Bioethics, visit  
[www.ahc.umn.edu/bioethics](http://www.ahc.umn.edu/bioethics).



Senior Fellow Steve Kelley, JD

### **Center for Science, Technology & Public Policy (CSTPP)**

**Senior Fellow Steve Kelley, JD**  
Senior Fellow and Director, Center for Science, Technology & Public Policy  
Hubert H. Humphrey Institute of Public Affairs  
For more information on Steve Kelley, visit  
[www.hhh.umn.edu/people/skelley/index.html](http://www.hhh.umn.edu/people/skelley/index.html).

For more information on CSTPP, visit  
[www.hhh.umn.edu/centers/stpp/](http://www.hhh.umn.edu/centers/stpp/).

### **Stem Cell Institute**

**Prof. Jonathan Slack, PhD**  
Tulloch Chair in Stem Cell Biology, Genetics & Genomics  
Director, Stem Cell Institute  
Professor of Genetics and Cell Biology  
For more information about Prof. Slack, visit  
[www.stemcell.umn.edu/stemcell/faculty/Slack/home.html](http://www.stemcell.umn.edu/stemcell/faculty/Slack/home.html).



Prof. Dan Kaufman, MD, PhD

**Prof. Dan Kaufman, MD, PhD**  
Associate Director, Stem Cell Institute  
Assistant Professor of Medicine, Division of Hematology, Oncology

For more information on Prof. Kaufman, visit  
[www.stemcell.umn.edu/stemcell/faculty/Kaufman\\_D/](http://www.stemcell.umn.edu/stemcell/faculty/Kaufman_D/).  
For more information on the Stem Cell Institute, visit  
[www.stemcell.umn.edu/](http://www.stemcell.umn.edu/).



Prof. Harry Orr, PhD

### **Biomedical Genomics Center**

**Prof. Kenneth B. Beckman, PhD**  
Director Biomedical Genomics Center  
Associate Professor, Department of Genetics, Cell Biology, and Developmental Biology

For more information on the Biomedical Genomics Center visit [www.bmgc.umn.edu/](http://www.bmgc.umn.edu/).

### **Institute of Human Genetics (IHG)**

**Prof. Harry Orr, PhD**  
Tulloch Professor of Genetics, Department of Laboratory Medicine and Pathology  
Director, Institute of Human Genetics  
Professor, Dept. Genetics, Cell Biology & Development  
For more information on Prof. Orr, visit  
[www.med.umn.edu/hg/research/orr/home.html](http://www.med.umn.edu/hg/research/orr/home.html).

For more information on IHG, visit  
[www.med.umn.edu/hg/home.html](http://www.med.umn.edu/hg/home.html).



Prof. Michael Osterholm, PhD, MPH

### **Center for Infectious Disease Research & Policy (CIDRAP)**

**Prof. Michael Osterholm, PhD, MPH**  
Director, Center for Infectious Disease Research & Policy  
Professor, Environmental Health Sciences, School of Public Health

Adjunct Professor, Medical School  
Director, NIH-supported Center of Excellence for Influenza Research Surveillance  
For more information on Professor Osterholm, visit  
[www.cidrap.umn.edu/cidrap/center/about/staff/articles/osterholm.html](http://www.cidrap.umn.edu/cidrap/center/about/staff/articles/osterholm.html).

For more information on CIDRAP, visit  
[www.cidrap.umn.edu/](http://www.cidrap.umn.edu/).



Prof. Jeffrey Bender, DVM, MS, Dipl. ACVPM

### **Center for Animal Health & Food Safety (CAHFS)**

**Prof. Jeffrey Bender, DVM, MS, Dipl. ACVPM**  
Director, Center for Animal Health & Food Safety  
Professor, School of Public Health, College of Veterinary Medicine  
For more information on Prof. Bender, visit  
[www.cvm.umn.edu/vpm/facultystaff/jeffbender/home.html](http://www.cvm.umn.edu/vpm/facultystaff/jeffbender/home.html).

For more information on the CAHFS, visit  
[www.cahfs.umn.edu](http://www.cahfs.umn.edu).



Prof. Shaun Kennedy, BSE

### **National Center for Food Protection & Defense**

**Prof. Shaun Kennedy, BSE**  
Director, National Center for Food Protection and Defense (NCFPD)  
Director of Partnerships and External Relations, College of Veterinary Medicine  
Assistant Professor, Veterinary Population Medicine  
College of Veterinary Medicine  
For more information on Prof. Kennedy, visit  
[www.ncfpd.umn.edu/about/kennedy.cfm](http://www.ncfpd.umn.edu/about/kennedy.cfm).

For more information on NCFPD, visit  
<http://www.ncfpd.umn.edu/index.cfm>.

## Consortium Members--Selected Faculty



Prof. Michael Georgieff, MD

### **Center for Neurobehavioral Development**

**Prof. Michael Georgieff, MD**  
 Director and Founder, Center for Neurobehavioral Development

Professor, Department of Pediatrics, Medical School Professor, Institute of Child Development, College of Education and Human Development  
 For more information on Dr. Georgieff, visit [www.med.umn.edu/peds/neonat/directory/georgieff/home.html](http://www.med.umn.edu/peds/neonat/directory/georgieff/home.html).

For more information about the Center for Neurobehavioral Development, visit <http://www.cehd.umn.edu/cnbd/>.

### **Center for Cognitive Sciences**

**Prof. 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  
 Director, Center for Cognitive Sciences, University of Minnesota

For more information on Prof. Georgopoulos, visit [www.brain.umn.edu/bios/Apostolos\\_6.html](http://www.brain.umn.edu/bios/Apostolos_6.html).

For more information on the Center for Cognitive Sciences, visit [www.cogsci.umn.edu/](http://www.cogsci.umn.edu/).

### **Center for Environment & Health Policy**

**Prof. William Toscano, Jr., PhD**

Director, Center for Environment & Health Policy  
 Professor of Molecular Toxicology  
 Head, Division of Environmental Health Sciences  
 Interim Head, Center for Environmental Health Policy  
 Head, Global Health Initiative  
 Associate Director, Joint Degree Program in Law, Health & the Life Sciences

For more information on Prof. Toscano, visit [www.sph.umn.edu/faculty/faculty.asp?x5=tosca001](http://www.sph.umn.edu/faculty/faculty.asp?x5=tosca001).

To learn more about the Center for Environment & Health Policy, visit [www.ehns.umn.edu/research/centers.htm](http://www.ehns.umn.edu/research/centers.htm).

### **International Science & Technology Practice and Policy Center (InSTePP)**

**Prof. Phil Pardey, PhD**

Professor of Science and Technology Policy, Department of Applied Economics  
 For more information on Prof. Pardey, visit [www.apec.umn.edu/faculty/ppardey/](http://www.apec.umn.edu/faculty/ppardey/).

For more information on InSTePP, visit [www.instepp.umn.edu/people/people.html](http://www.instepp.umn.edu/people/people.html).

### **Microbial and Plant Genomics Institute (MPGI)**

**Prof. Michael Sadowsky, PhD**

Distinguished McKnight University Professor  
 Co-Director, Microbial and Plant Genomics Institute  
 BioTechnology Institute, Department of Microbiology  
 Department of Soil, Water, and Climate

For more information on Prof. Sadowsky, visit [www.soils.umn.edu/profiles/profiles\\_msadowsky.php](http://www.soils.umn.edu/profiles/profiles_msadowsky.php).



Prof. Neil Olszewski, PhD

### **Prof. Neil Olszewski, PhD**

Co-Director, Microbial Plant & Genomics Institute  
 Professor, Department of Plant Biology  
 To read about Prof. Olszewski's research and selected publications, visit [www.cbs.umn.edu/plantbio/faculty/OlszewskiNeil/](http://www.cbs.umn.edu/plantbio/faculty/OlszewskiNeil/).

For more information on the Microbial and Plant Genomics Institute, visit [www.mpgi.umn.edu](http://www.mpgi.umn.edu).

### **Water Resources Center**

**Prof. Deborah Swackhamer, PhD**

Charles M. Denny Chair in Science, Technology, and Environmental Policy,  
 Hubert H. Humphrey Institute of Public Affairs  
 Professor, Environmental Health Sciences, School of Public Health

Co-Director, Water Resources Center  
 For more information on Prof. Swackhamer, visit [www.sph.umn.edu/faculty/faculty.asp?x5=dswwack](http://www.sph.umn.edu/faculty/faculty.asp?x5=dswwack).

For more information about the Water Resources Center, visit [www.wrc.umn.edu](http://www.wrc.umn.edu).



Prof. Deborah Swackhamer, PhD

### **Institute on the Environment (IaNE)**

**Prof. Jonathan Foley, PhD**

Director, Institute on the Environment  
 Professor and McKnight Presidential Chair in the Department of Ecology, Evolution and Behavior  
 For more information on Prof. Foley, visit [www.environment.umn.edu/about/jonfoleybio.html](http://www.environment.umn.edu/about/jonfoleybio.html).

To learn more about the Institute on the Environment, visit [www.environment.umn.edu](http://www.environment.umn.edu).



Prof. Jonathan Foley, PhD

### **Healthy Food Health Lives Institute**

**Prof. Mindy Kurzer, PhD**

Director, Healthy Food, Health Lives Institute  
 Professor, Food Science and Nutrition  
 For more information on Prof. Kurzer, visit [www.cfans.umn.edu/Mindy\\_Kurzer](http://www.cfans.umn.edu/Mindy_Kurzer).

To learn more about Healthy Foods, Healthy Lives Institute, visit [www.hfhl.umn.edu/](http://www.hfhl.umn.edu/).



Prof. Mindy Kurzer, PhD

### **Center for Spirituality & Healing**

**Prof. Mary Jo Kreitzer, PhD, RN, FAAN**

Director, Center for Spirituality & Healing  
 Professor, School of Nursing  
 For more information on Prof. Kreitzer, visit [www.csh.umn.edu/facultystaf/mjkreitzer/home.html](http://www.csh.umn.edu/facultystaf/mjkreitzer/home.html).

For more information on the Center for Spirituality & Healing, visit [www.csh.umn.edu/](http://www.csh.umn.edu/).



Prof. Mary Jo Kreitzer, PhD, RN, FAAN



Prof. Apostolos P. Georgopoulos, MD, PhD



Prof. William Toscano, Jr., PhD



Prof. Phil Pardey, PhD



Prof. Mike Sadowsky, PhD

# Presidential Interdisciplinary Initiative on Law and Values

University of Minnesota President Robert Bruininks named the **Consortium on Law and Values in Health, Environment & the Life Sciences** one of 8 Interdisciplinary Academic Initiatives in his October 2003 State of the University Address. In 2006 President Bruininks named Senior Vice President of Academic Affairs and Provost E. Thomas Sullivan as head of the Consortium's Initiative. We are delighted to have Provost Sullivan at the helm and benefit greatly from his guidance.

In 2008-09 Presidential Initiative funding allowed the Consortium to:

- publish the *Minnesota Journal of Law, Science & Technology*;
- offer intramural grant funding to further work on the societal implications of the life sciences by Consortium member centers, plus programs and departments participating in the Joint Degree Program;
- host our 10th Anniversary Gala Dinner with keynote address by Prof. Arthur Caplan, PhD (University of Pennsylvania);
- host our groundbreaking 10th Anniversary Conference on "What's Next in Law and the Life Sciences? Debating Openness, Access & Accountability," with keynote address delivered by Prof. Larry Gostin, JD (Georgetown University/Johns Hopkins University);
- offer events open to the public such as the Lecture Series on Law, Health & the Life Sciences; and
- host the 2008-09 Visiting Consortium Professor Prof. David L. Faigman, JD (UC, Hastings College of the Law).

The Consortium responds to the most challenging legal and ethical questions of the 21st century: questions posed by biomedicine and the life sciences. These are questions that require a new kind of cross-disciplinary work fully marrying legal, ethical, and scientific expertise. The University's commitment to grappling with these emerging and complex questions is part of its land-grant legacy of serving the people of Minnesota, the country, and the world.

The Consortium links 18 of the University's leading programs and centers, leveraging the University's strengths in the life sciences, biomedicine, law, bioethics, and public policy to do cutting-edge work on the societal implications of the life sciences. The Consortium's partner program, the **Joint Degree Program in Law, Health & the Life Sciences**, offers 23 degree combinations, allowing exceptional students to combine a law degree with a wide range of graduate and professional degrees in the life sciences, biomedicine, and environmental studies.

The Presidential Initiative allowed the Consortium to launch the *Minnesota Journal of Law, Science & Technology*; increase our capacity to seek and manage externally funded grants; create a Visiting Consortium Professor position to bring to campus

## Interdisciplinary Doctoral Fellowship

Kimberly Thomas-Pollei, PhD candidate in Technical Communications, Department of Writing, was awarded a one-year Interdisciplinary Doctoral Fellowship funded by the Graduate School. In 2008-09 Ms. Thomas-Pollei worked with the Consortium as part of her research on **"Interrogating Patent Law and Commodification of Genetic Risk: Myriad Genetics' BRCA Analysis and the Production of Subjectivity."**

Ms. Thomas-Pollei's project is an interdisciplinary research project examining ethical, legal, and social issues arising out of advances in genetics and analyzing the effects of patenting and commercialization of genetic sequences. She is investigating the relationships among science, technology, patenting, industry, and social identity using the ongoing controversy regarding BRCA1 & 2 gene patents as a case study.

"The past year spent as an interdisciplinary graduate fellow at the Consortium on Law and Values was indispensable to my progress as a PhD candidate in Rhetoric and Scientific and Technical Communication. The opportunity to develop my project outside of my own disciplinary framework facilitated a repurposing of my research beyond what I initially conceived. Most notably, I benefited from the interaction with my faculty mentors, Professor Susan Wolf and Adjunct Associate Jordan Paradise. Their collective intellectual rigor and awareness of the nuances of scholarship pertaining to the intersections of genomic science and the law helped challenge me in new ways. Put simply, I would not have seen the promise or the flaws in aspects of my research without their help. Additionally, my mentors connected me with several Consortium affiliated faculty who were helpful in my project development. Overall, my year at the Consortium will impact my thinking as an interdisciplinary researcher, which will resonate for years to come."

—Kim Thomas-Pollei, PhD candidate in Rhetoric and Scientific and Technical Communication, 2008-09 Interdisciplinary Doctoral Fellow

This Fellowship is intended by the Graduate School to provide a unique study opportunity for top PhD students whose research and scholarly interests complement those of one of the University-wide, interdisciplinary research centers or institutes.

Esther E. McGinnis, PhD candidate in Applied Plant Sciences, has been awarded a 2009-10 Interdisciplinary Doctoral Fellowship with the Consortium on Law and Values, and the Microbial and Plant Genomics Institute. Her project examines the legal, policy, and scientific issues surrounding the regulation of genetically modified crops.

For more information on the Interdisciplinary Doctoral Fellowship, visit [www.grad.umn.edu/fellowships/InterdisciplinaryFellowship.html](http://www.grad.umn.edu/fellowships/InterdisciplinaryFellowship.html)

and the community each year a prominent scholar focusing on the societal implications of the life sciences; support work on the implications of the life sciences by Consortium members and Joint Degree Program partners; and continue extensive programming including a lecture series and an annual conference.

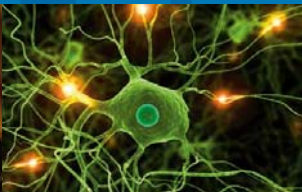
The Consortium is grateful to the Office of the President and the Office of the Senior Vice President for Academic Affairs and Provost for their support and confidence. More information on all of the Presidential Initiatives may be found at [www1.umn.edu/pres/01\\_initiatives.html](http://www1.umn.edu/pres/01_initiatives.html).

More information about the University's commitment to interdisciplinary research and studies can be found at [www.interdisciplinary.umn.edu/index](http://www.interdisciplinary.umn.edu/index).

# Executive Committee



Prof. Deborah Swackhamer, PhD, Water Resources Center, and Hubert H. Humphrey Institute of Public Affairs



Prof. Michael Sadowsky, PhD, Soil, Water & Climate



Prof. Elizabeth Wattenberg, PhD, Environmental Health Sciences

The Consortium and Joint Degree Program created a joint Executive Committee in 2003. The Executive Committee was established to facilitate the work of the Consortium and Joint Degree Program by sharing intellectual responsibility for our programming in order to take full advantage of the extraordinary expertise in both programs.

The Executive Committee combines members elected for a 3-year term with members leading events for the year. Committee members were initially elected to 1-3 year terms to establish 3-year staggered terms. Additional committee members led event planning. Committee members in 2008-09 included the following:



Prof. Jeffrey Kahn, PhD, MPH, Center for Bioethics

**Prof. Jeffrey Kahn, PhD, MPH** (Center for Bioethics), was elected to a 3-year term beginning 2009. He is the Maas Family Chair in Bioethics and Professor, Center for Bioethics; Department of Medicine, University of Minnesota Medical School; School of Public Health; and Department of Philosophy, University of Minnesota.

**Prof. Shaun Kennedy, BSE** (National Center for Food Protection and Defense), was elected to a 3-year term beginning 2007. He is the Director for the National Center for Food Protection and Defense, an Assistant Professor of Veterinary Population Medicine, and Director of Partnerships and External Relations for the College of Veterinary Medicine.



Prof. Shaun Kennedy, BSE, National Center for Food Protection and Defense

**Prof. Michael Sadowsky, PhD** (Soil, Water & Climate), was elected to a 3-year term beginning in 2008. He is a Professor and Co-Director of Graduate Studies in the Department of Soil, Water & Climate, College of Food, Agricultural, and Natural Resource Sciences, University of Minnesota.

**Prof. Deborah Swackhamer, PhD** (Water Resources Center; Hubert H. Humphrey Institute), was elected to a 3-year term beginning 2008. Prof. Swackhamer is a Professor of Environmental Chemistry in the Division of Environmental Health Sciences in the School of Public Health, a Co-Director of the Water Resources Center, and the Humphrey Institute's Charles M. Denny, Jr. Chair in Science, Technology, and Environmental Policy.

**Prof. Elizabeth Wattenberg, PhD** (Environmental Health Sciences), was elected to a 3-year term beginning 2006. She is Associate Professor and Director of Graduate Studies in the Division of Environmental Health Sciences in the School of Public Health.





The Consortium, together with the University of Minnesota Law School, inaugurated this unique journal in 2004-05. The *Minnesota Journal of Law, Science & Technology (MJLST)* is a multidisciplinary journal published twice annually, edited by faculty from across the University of Minnesota as well as by law students. *MJLST* addresses issues in intellectual property, technology policy and innovation, bioethics, and law and science, while maintaining a rigorous grounding in law, values, and policy. *MJLST* is based in the Law School and staffed by law students, but is overseen and managed by the Consortium. The journal is made possible by support received from the **Presidential Interdisciplinary Initiative on Law and Values**, ([www.interdisciplinary.umn.edu/background/law\\_values.html](http://www.interdisciplinary.umn.edu/background/law_values.html)), the Law School, Joint Degree Program, Advisory Board members, and subscriptions.

**The Minnesota Journal of Law, Science & Technology would like to thank the following individuals, law firms, and organizations for their generous support in 2008-09:**

Blue Cross Blue Shield of Minnesota  
[www.bluecrossmn.com](http://www.bluecrossmn.com)

Fish & Richardson PC  
[www.fr.com](http://www.fr.com)

Fredrickson & Byron, PA  
[www.fredlaw.com/index2.htm](http://www.fredlaw.com/index2.htm)

MN Representative Phyllis Kahn, PhD, MPA  
[www.jointdegree.umn.edu/adv\\_bd/kahn](http://www.jointdegree.umn.edu/adv_bd/kahn)

Leonard Street and DeInard  
[www.leonard.com/index.aspx](http://www.leonard.com/index.aspx)

Ruth Mickelsen, Esq.  
[www.jointdegree.umn.edu/adv\\_bd/mickelsen](http://www.jointdegree.umn.edu/adv_bd/mickelsen)

Oppenheimer Wolff & Donnelly LLP  
[www.oppenheimer.com](http://www.oppenheimer.com)

Patterson, Thunette, Skaar & Christensen, PA  
[www.ptslaw.com](http://www.ptslaw.com)

UnitedHealth Group  
[www.unitedhealthgroup.com/main/default.aspx](http://www.unitedhealthgroup.com/main/default.aspx)

We also thank Senior Vice President for Academic Affairs and Provost E. Thomas Sullivan and Dean David Wippman for their support.

The journal features a dual masthead, one for faculty editors and one for student editors. *MJLST* is committed to serving as an educational opportunity for law students and a venue for their scholarly publications. The student staff and board are chosen competitively by the students. Former **Adjunct Prof. Jordan Paradise** was the Faculty Editor-in-Chief, **Prof. Susan Wolf** was the Faculty Executive Editor, and **Profs. Jeffrey Kahn, Ruth Okediji, and Daniel Philippon** were the Faculty Associate Editors for 2008-09. **Caroline Crenshaw** was the 2008-09 Student Editor-in-Chief and **Jeffrey Cobia** was the Student Executive Editor. **Leili Fatehi** is the 2009-10 Student Editor-in-Chief and **Christine Yun** is the Student Executive Editor. **Monica Wittstock** is the Executive Administrator of *MJLST*. A Faculty Editorial Board reviews and edits faculty-written articles. The Faculty Editorial Advisory Board includes representatives from Consortium member centers and programs as well as University departments working on the societal implications of scientific advancements.

*MJLST* publishes all articles online at [www.mjlst.umn.edu](http://www.mjlst.umn.edu) in full text, simultaneously with hard-copy publication. *MJLST's* ranking continued to rise in 2008-09. Washington and Lee University School of Law's ranking of law journals rated *MJLST* 4 out of 68 for the Health, Medicine, Psychology & Psychiatry category in 2008, and 11 out of 38 for the Science, Technology & Computing category, 13 out of 53 for the Intellectual Property category, and 10 out of 79 for the Environment, Natural Resource & Land Use category. For more information on ranking, visit [www.mjlst.umn.edu](http://www.mjlst.umn.edu).

Full-volume subscriptions are \$20 (two issues per volume). Single issues are available for \$12 each. Please subscribe at [www.mjlst.umn.edu](http://www.mjlst.umn.edu) or e-mail us at [mjlst@umn.edu](mailto:mjlst@umn.edu).

The website for the at [www.mjlst.umn.edu](http://www.mjlst.umn.edu) describes how the *Minnesota Journal of Law, Science & Technology* evolved from the *Minnesota Intellectual Property*

*Review* to become a premier journal on issues in law, science, and technology. The website also allows visitors to read biographies of authors and provides instructions for submitting articles for review. *MJLST* provides instant online access to full-text articles simultaneously to the print publication.

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Monica Wittstock  
\* Lead Editor



# Grants & Research

Grant research in 2008-09 has been funded by the National Science Foundation (NSF); the University of California, Santa Barbara (John D. and Catherine T. MacArthur Foundation Law and Neuroscience Project); the Law School's Robina Fund for Research on Law, Public Policy & Society (LaPPS); and The Greenwall Foundation. In 2008-09 the Consortium produced original intellectual research on the societal implications of the life sciences and completed the third year of a 4-year NSF grant. We also began work on two new grants, and submitted 3 new grant proposals.

## **"NIRT: Evaluating Oversight Models for Active Nanostructures and Nanosystems: Learning from Past Technologies in a Societal Context"**

The Consortium completed its third year of work on a project funded by the National Science Foundation (NSF). This 4-year, \$1.22 million project is developing oversight models for nanobiotechnology. The project began September 1, 2006 and involves a national Working Group. Prof. Susan Wolf, JD (Law School) is the Principal Investigator. Co-Principal Investigators are Prof. Jennifer Kuzma, PhD (Humphrey Institute); Prof. Efrosini Kokkoli, PhD (Institute of Technology); Jordan Paradise, JD (formerly of the Consortium, now of Seton Hall Law School); and Prof. Gurumurthy Ramachandran, PhD (School of Public Health).

The Consortium created a website for **NIRT**. This website provides Working Group Members access to working bibliographies, drafts of papers, meeting agendas, and background information.

The **NIRT** Advisory Board has also continued active participation in the project and in Working Group meetings. They include: Maria Powell, PhD (Assistant Scientist, Nanoscale Science & Engineering Center, University of Wisconsin-Madison); Prof. Linda Hogle, PhD (Medical History and Bioethics, University of Wisconsin-Madison); Judy Crane, PhD (Minnesota Pollution Control Agency); William Kay, PhD (Northeastern University); Michael Gorman, PhD (University of Virginia); and Dave Chittenden, MS (Vice President for Education, Science Museum of Minnesota).

To view publications and selected conference abstracts resulting from grants go to page 39 & 40 of this publication, or visit [www.lifesci.consortium.umn.edu/research\\_publications](http://www.lifesci.consortium.umn.edu/research_publications).



Joint Degree Program student Lauren Beachy, JD, PhD candidate in Molecular, Cellular, Developmental Biology & Genetics, in the lab.

## **2009-10 Annual Conference**

### **"The Challenge of Governing Nanobiotechnology: Reinventing Oversight for the 21st Century"**

Thursday, April 15, 2010

8:00am-4:30pm

Cowles Auditorium, Hubert H. Humphrey Institute

Watch our website for details:

[www.lifesci.consortium.umn.edu/conferences](http://www.lifesci.consortium.umn.edu/conferences).

### **Working Group for NSF-funded nanotechnology project to develop oversight models for nanobiotechnology:**

- Prof. Stephen Ekker, PhD, Mayo Clinic
- Prof. Susan Foote, JD, University of Minnesota
- Prof. Ralph Hall, JD, University of Minnesota
- Robert Hoerr, MD, PhD, President and CEO, Nanopocopia Inc.
- Prof. Terrance Hurley, PhD, University of Minnesota
- Robbin Johnson, President, Cargill Foundation
- Prof. Bradley Karkkainen, JD, University of Minnesota
- George Kimbrell, JD, The International Center for Technology Assessment & the Center for Food Safety
- Andrew Maynard, PhD, Chief Science Advisor, Woodrow Wilson International Center for Scholars
- Prof. Kristen Nelson, PhD, University of Minnesota
- Prof. David Norris, PhD, University of Minnesota
- Adjunct Assoc. Prof. Jordan Paradise, JD, formerly of the University of Minnesota, now Seton Hall Law School
- Prof. David Y.H. Pui, PhD, University of Minnesota
- Prof. T. Andrew Taton PhD, University of Minnesota
- Prof. Elizabeth J. Wilson, PhD, University of Minnesota
- Prof. Susan M. Wolf, JD, University of Minnesota

The Consortium is indebted to the following Research Assistants for their work on the NIRT grant:

**Jae Young Choi**, PhD candidate, School of Public Health; **Leili Fatehi**, JD candidate, Law School; **Aliya Kuzhabekova**, PhD candidate, Hubert H. Humphrey Institute of Public Affairs; **Alison Tisdale**, MS candidate in Chemical Engineering and Materials Science; and **Kelly Wilder**, MS candidate, Hubert H. Humphrey Institute of Public Affairs.

### **"Cutting-Edge Policy Issues in Reprogonomics: Revamping the Law, Ethics & Policy Governing Genomic Biobanks and Assisted Reproductive Technology"**

Professor Susan M. Wolf, JD, is Principal Investigator on this 2-year project funded by the University of Minnesota's Robina Research Fund for Law, Public Policy & Society (LaPPS).

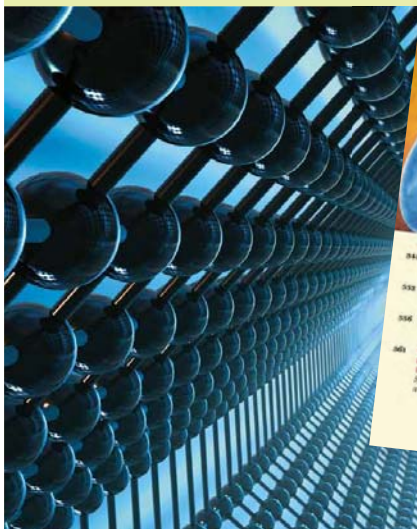
### **"How Should Neuroscience Change Law? Lessons from the Impact of Genetics and Emerging Convergence of Genomics and Neuroscience"**

Prof. Susan M. Wolf, JD, is Principal Investigator on this 1-year sub-award project sponsored by the University of California, Santa Barbara (John D. and Catherine T. MacArthur Foundation's Law and Neuroscience Project).

### **"Managing Incidental Findings in Human Subjects Research"**

The Consortium completed this 2-year project funded by the National Human Genome Research Institute (NHGRI) at the National Institutes of Health (NIH) in 2007. The Consortium and the Institute for Translational Neuroscience (ITN) then received a Presidential Grant from The Greenwall Foundation to help support a day-long conference on **"Emerging Problems in Neurogenomics: Ethical & Policy Issues at the Intersection of Genomics & Neuroscience"** and to develop a grant proposal to continue the work on incidental findings, research results in genomic biobanks & archives. **"Managing Incidental Findings and Research Results in Genomic Biobanks & Archives"** was submitted to the NIH for funding in 2009-2011. This groundbreaking project will bring together a national group of top researchers and bioethicists to address these issues.

The Consortium also spearheaded a grant proposal in response to the ARRA NIH Challenge grants, **"Nanodiagnostics and Nanotherapeutics: Building Research Ethics and Oversight."**



# Consortium Intramural Grants

## 2008-09 Intramural Grant Awards

Since 2001 the Consortium has awarded over \$800,000 in grants to encourage campus-wide work on the societal implications of problems in health, environment, and the life sciences. In December 2008 we issued an internal Request for Proposal (RFP) to Consortium Members and Joint Degree Program partners and two intramural RFPs to University of Minnesota faculty and graduate/professional students.

The subcommittee recommending the intramural awards to the full Consortium included Profs. Jeffrey Kahn, PhD, MPH; Shaun Kennedy, BSE; Michael Sadowsky, PhD; Deborah Swackhamer, PhD; Elizabeth Wattenberg, PhD; and Susan Wolf, JD. These grants are made possible by funds received through the Presidential Interdisciplinary Initiative.



JDP student and Consortium grant recipient Geeta Naidu, JD, MPH candidate in Public Health Administration & Policy.



JDP student and Consortium grant recipient Crystal Liu, JD, MPH candidate in Public Health Administration & Policy.



In October 2003, President Robert Bruininks named the Consortium on Law and Values in Health, Environment & the Life Sciences one of 8 Presidential Interdisciplinary Initiatives. This helps support our ability to award intramural grants.

### Consortium Member and JDP Partner Intramural Grants

In December 2008, we issued an internal Request for Proposals to Consortium member centers and graduate or professional programs or departments participating in the Joint Degree Program in Law, Health & the Life Sciences seeking funding for research, projects, or colloquia in Summer 2009 or academic year 2009-10.

### Consortium Member RFP

One grant was awarded:

- **"Development of a Public Use Website on the Social Dynamics of Global Climate Change"**—Prof. Jeffrey Broadbent, PhD, Institute on the Environment (\$27,566 awarded)

### Faculty RFP

We invited proposals to fund interdisciplinary research, projects, or curricular innovation on health, environment, or the life sciences in Summer 2009 or academic year 2009-10. One grant was awarded:

- **"Contemporary Issues in Ecosystem Health: Developing an Undergraduate Course"**—Prof. Julia Ponder, DVM, Veterinary Population Medicine (\$7,239 awarded).

### Graduate and Professional Student RFPs

The RFP to graduate and professional students was intended to provide a stipend for research and writing in the Summer 2009 or academic year 2009-10. We were delighted that the RFP stimulated 43 proposals from students in 34 programs around the University.

Six grants were awarded:

- **"Pathways Toward an Integrated Renewable Energy Certificate Market"**—Miriam Fischlein, PhD candidate, Natural Resource Science and Management (\$6,926 awarded);
- **"The Role of Sustainable Development in Rebuilding Post-Conflict Liberia"**—Alisha Hilde, JD, MPP candidate, Law School and Humphrey Institute of Public Affairs (\$5,500 awarded);
- **"Engineering Bodies, Engineering Futures: Geopolitics, State Conflict, and the Science of Biomimicry"**—Elizabeth Randolph Johnson, PhD candidate, Geography (\$6,256 awarded);
- **"Donor-Conceived Children and Their Fight for Knowledge: Using the Victorian Legislative Experience to Shed Light on Anonymity, Open Disclosure, and Access to Identifying Information"**—Crystal Liu, JD, MPH candidate in Public Health Administration & Policy, Law School and School of Public Health (\$6,282 awarded);
- **"Waste Scavengers (Recicladores) in San Pedro Sula, Honduras and the Effect of Global Market Change on Informal Recycling Activities"**—Katrina Mitchell, Master of Urban and Regional Planning (MURP) candidate, Humphrey Institute of Public Affairs (\$6,960 awarded); and
- **"Increasing Access to Oral Health Care: Enforcing Medicaid and CHIP Dental Provisions"**—Geeta Naidu, JD, MPH candidate in Public Health Administration & Policy, Law School and School of Public Health (\$5,000 awarded).

# Update on the Joint Degree Program

## In 2008-09 the Joint Degree Program:

- welcomed **7 new students** for a total of 39 in Fall 2008
- graduated **11 students** for a total of **27 alumni**, including our first JD/MHA graduate Jenny Cooner Patten;
- established a Scholarship fund for Joint Degree Program students with JDP Advisory Board member **Margo Struthers, JD**, providing the founding gift;
- announced that Prof. **Susan M. Wolf, JD**, Director of the Joint Degree Program and Chair of the Consortium, created the **Wolf Scholarship in Law, Health & the Life Sciences** for Joint Degree Program students;
- added 4 Advisory Board members: **Keith Halleland, JD**, Halleland Lewis Nilan & Johnson; **David R. Melloh, JD**, Lindquist & Vennum; **Kim Otte, JD**, MA, Mayo Clinic; and **Robert L. Thompson, JD, LLM**, Lindquist & Vennum;
- tripled the number of students pursuing the **Concentration in Health Law & Bioethics**, with 9 students completing the Concentration;
- initiated a **JDP Fellows Program** for current Law Students with an advanced degree in biomedicine or life sciences plus current Grad Students in biomedical or life sciences who already hold a JD;
- co-sponsored the **Deinard Memorial Lecture Series on Law & Medicine** with the Center for Bioethics, thanks to generous support from the Deinard family and the law firm of Leonard Street and Deinard in memory of Amos and Benedict Deinard;
- established JD, MA degree combination in Bioethics for Fall 2009 (approval pending); and
- Updated our website [www.jointdegree.umn.edu](http://www.jointdegree.umn.edu) with new features. The Joint Degree Program's website is the best resource for learning about the degree combinations offered by the program.

The Joint Degree Program is unique in the nation and enables students to combine a JD with a PhD, MD, MS, MPH, MHA, or MA (approval pending) in less time, with more academic support, and with potentially more financial support than if the students were to pursue the two degrees separately. Students who show good cause may also create an *ad hoc* joint degree with a Graduate School program relating to health, environment, or the life sciences that is not formally part of the Joint Degree Program. Students pursuing Graduate School degrees have the option of completing graduate minors in Bioethics, Bioinformatics, or Human Genetics. The Joint Degree Program spans 8 collegiate units plus the Center for Bioethics and involves more than 400 faculty members.



JDP student Jon Haraid, JD, PhD candidate in Pharmacology, with Prof. Colin Campbell, PhD, Pharmacology

## 2008-09 Graduates

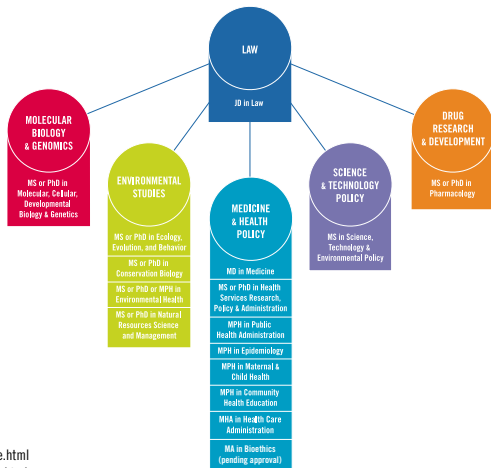
- Kelsey Brodsho, JD, MS** in Health Services Research, Policy & Administration, May 2009
- Irina Chaudhuri, JD, MPH** in Public Health Administration & Policy, May 2009
- Lillian Ewing, JD, MS** in Molecular, Cellular, Developmental Biology & Genetics, May 2009
- Andrew Gibbons, JD, MS** in Science, Technology & Environmental Policy, January 2009
- Laurel Kilgour, JD, MS** in Molecular, Cellular, Developmental Biology & Genetics, May 2009
- Garret Olson, JD, MS** in Computer Science & Bioinformatics, May 2009
- Jenny Cooner Patten, JD, MHA** in Healthcare Administration, May 2009
- Susan Pribyl Perera, JD, MS** in Molecular, Cellular, Developmental Biology & Genetics, December 2008
- Sarah Johnson Phillips, JD, MS** in Science, Technology & Environmental Policy, May 2009
- Marie Quasius, JD, MPH** in Environmental Health, May 2009
- Kathleen Starr, JD, MPH** in Community Health Education, December 2008



# Joint Degree Program Options & Faculty

The Joint Degree Program's strength is in the exceptional quality of the individuals who teach and learn here. The Joint Degree Program currently spans 8 collegiate units, and currently offers 23 degree combinations with over 400 faculty members from across the University. Known for their cutting-edge scholarship and interdisciplinary thinking, our distinguished faculty members provide guidance to students in the Joint Degree Program. Discover more by visiting the websites listed below.

- Law School:** [www.law.umn.edu](http://www.law.umn.edu)  
**Law Faculty:** [www.law.umn.edu/faculty/index.html](http://www.law.umn.edu/faculty/index.html)  
**JD combined with one of 23 available degree combinations**
- Molecular, Cellular, Developmental Biology & Genetics (MCDB&G):** [www.mcdbg.umn.edu/](http://www.mcdbg.umn.edu/)  
**MCDB&G Faculty:** [www.mcdbg.umn.edu/faculty/faculty.html](http://www.mcdbg.umn.edu/faculty/faculty.html)  
**JD with an MS or PhD in Molecular, Cellular, Developmental Biology & Genetics (MCDB&G)**
- Pharmacology:** [www.pharmacology.med.umn.edu/](http://www.pharmacology.med.umn.edu/)  
**Pharmacology Faculty:** [www.pharmacology.med.umn.edu/faculty.html](http://www.pharmacology.med.umn.edu/faculty.html)  
**JD with an MS or PhD in Pharmacology**
- Medical School:** [www.med.umn.edu/](http://www.med.umn.edu/)  
**Medical School Faculty:** [www.med.umn.edu/](http://www.med.umn.edu/)  
**JD with an MD in Medicine**
- Health Services Research, Policy & Administration (HSRPA):** [www.sph.umn.edu/education/hsrp/home.html](http://www.sph.umn.edu/education/hsrp/home.html)  
**HSRPA Faculty:** [www.sph.umn.edu/faculty/home.html](http://www.sph.umn.edu/faculty/home.html)  
**JD with an MS or PhD in Health Services Research, Policy & Administration**
- Healthcare Administration:** [www.sph.umn.edu/education/mha/home.html](http://www.sph.umn.edu/education/mha/home.html)  
**Healthcare Administration Faculty:** [www.sph.umn.edu/faculty/f\\_prog.asp?pid=13&dg=Healthcare%20Administration](http://www.sph.umn.edu/faculty/f_prog.asp?pid=13&dg=Healthcare%20Administration)  
**JD with an MHA in Healthcare Administration**
- Public Health Administration & Policy (PHAP):** [www.sph.umn.edu/education/phap/home.html](http://www.sph.umn.edu/education/phap/home.html)  
**PHAP Faculty:** [www.sph.umn.edu/faculty/home.html](http://www.sph.umn.edu/faculty/home.html)  
**JD with an MPH in Public Health Administration & Policy**
- Epidemiology:** [www.sph.umn.edu/education/epi/home.html](http://www.sph.umn.edu/education/epi/home.html)  
**Epidemiology Faculty:** [www.sph.umn.edu/faculty/home.html](http://www.sph.umn.edu/faculty/home.html)  
**JD with an MPH in Epidemiology**
- Maternal and Child Health:** [www.sph.umn.edu/education/mch/home.html](http://www.sph.umn.edu/education/mch/home.html)  
**Maternal and Child Health Faculty:** [www.sph.umn.edu/faculty/home.html](http://www.sph.umn.edu/faculty/home.html)  
**JD with an MPH in Maternal and Child Health**
- Community Health Education:** [www.sph.umn.edu/education/che/home.html](http://www.sph.umn.edu/education/che/home.html)  
**Community Health Education Faculty:** [www.sph.umn.edu/faculty/home.html](http://www.sph.umn.edu/faculty/home.html)  
**JD with an MPH in Community Health Education**
- Center for Bioethics:** [www.ahc.umn.edu/bioethics/](http://www.ahc.umn.edu/bioethics/)  
**Center for Bioethics Faculty:** [www.ahc.umn.edu/bioethics/facstaff/home.html](http://www.ahc.umn.edu/bioethics/facstaff/home.html)  
**JD with an MA in Bioethics (pending approval)**
- Science, Technology & Environmental Policy (STEP):** [www.hhh.umn.edu/academics/gradprograms/ms/STEP](http://www.hhh.umn.edu/academics/gradprograms/ms/STEP)  
**STEP Faculty:** [www.hhh.umn.edu/people/faculty\\_fellows.html](http://www.hhh.umn.edu/people/faculty_fellows.html)  
**JD with an MS in Science, Technology & Environmental Policy**
- Ecology, Evolution, and Behavior (EEB):** [www.cbs.umn.edu/eeb/](http://www.cbs.umn.edu/eeb/)  
**EEB Faculty:** [www.cbs.umn.edu/eeb/faculty/](http://www.cbs.umn.edu/eeb/faculty/)  
**JD with an MS or PhD in Ecology, Evolution, and Behavior**
- Conservation Biology:** [www.consbio.umn.edu/](http://www.consbio.umn.edu/)  
**Conservation Biology Faculty:** [www.consbio.umn.edu/findfaculty.php](http://www.consbio.umn.edu/findfaculty.php)  
**JD with an MS or PhD in Conservation Biology**
- Environmental Health Sciences (EnHS):** [www.sph.umn.edu/education/ehs/home.html](http://www.sph.umn.edu/education/ehs/home.html)  
**EnHS Faculty:** [www.sph.umn.edu/faculty/home.html](http://www.sph.umn.edu/faculty/home.html)  
**JD with an MS, PhD, or MPH in Environmental Health Sciences**
- Natural Resources Science & Management (NRS):** [www.nrs.umn.edu/](http://www.nrs.umn.edu/)  
**NRS Faculty:** [www.nrs.umn.edu/people/index.html](http://www.nrs.umn.edu/people/index.html)  
**JD with an MS or PhD in Natural Resources Science and Management**



JDP Advisory Board Member Wethrop Rockwell, JD and JDP student Kristin Paulson, JD, MPH candidate in Public Health Administration & Policy, at the Fall 2008 Advisory Board Reception.





Joint Degree Program students at the Fall 2008 Advisory Board Reception. From L to R: Keli Holzapfel, Mollie Gurian, Greg Long, Lindsay Eastman, Christopher Walker, Crystal Liu, Christopher Pinahs, Jon Hareid, Kristin Paulson, Lauren Beach, Taylor Pierce, Rachel Herder, Amber Thomas, Ilina Chaudhuri, Lindsey Yock, Tchao-Hou Thao, and Geeta Naidu.

## Student Recruitment & Scholarships

The Joint Degree Program welcomed **7 new students** in Fall 2008 and had **39 students**, pursuing the following degree combinations:

- JD/MS in Molecular, Cellular, Developmental Biology & Genetics (MCDB&G) (Lilly Ewing, Alex Galaitis, Laurel Kilgour, Susan Pribyl Perera)
- JD/PhD in MCDB&G (Lauren Beach, Rachel Herder, Keli Holzapfel, Katherine Dick Krueger, Sarita Mutha, Stephanie Westcot)
- JD/PhD in Conservation Biology (Collette Adkins Giese)
- JD/MPH in Environmental Health (Marie Quasius)
- JD/MD (Greg Long, Tchao-Hou Thao, Lindsey Yock)
- JD/MS in Health Services Research, Policy & Administration (Kelsey Brodsho, Michelle Dawson)
- JD/MPH in Public Health Administration & Policy (Ilina Chaudhuri, Mollie Gurian, Crystal Liu, Alissa Lyon, Geeta Naidu, Britta Orr, Kristin Paulson, Taylor Pierce, Amber Thomas)
- JD/MPH in Epidemiology (Christopher Walker)
- JD/MPH in Community Health Education (Lindsey Hopper, Anne McNamara, Kathleen Starr)
- JD/MHA in Healthcare Administration (Jenny Cooner Patten)
- JD/MS in Science, Technology & Environmental Policy (Samantha Bohrmann, Andrew Gibbons, Sarah Johnson Phillips)
- JD/MS in Pharmacology (Lindsay Eastman, Jamie Kurtz)
- JD/PhD in Pharmacology (Jon Hareid)
- JD/MS in Plant Biological Sciences (Christopher Pinahs)
- JD/MS in Computer Science/Bioinformatics (Garret Olson)

Three students were awarded a partial **Joint Degree Program Scholarship** in Fall 2008; one JDP student was awarded the 2008-09 **Minnesota Intellectual Property Law Association Scholarship** in the Law School; one student received a one-year **Harold M. Fredrikson Memorial Scholarship**; and four students received a partial **Law School Scholarship**.

Applications to the Joint Degree Program for Fall 2009 again showed impressive strength and geographic diversity. We received applications from students with undergraduate degrees from distinguished institutions across the country including Columbia University,

Cornell University, and University of North Carolina at Chapel Hill. Scholarship contributions have a tremendous impact on our ability to recruit the best and the brightest students.

In the Fall of 2009 we will welcome **13 new students** pursuing the following degree combinations: JD/MS in Conservation Biology; JD/MS in Molecular, Cellular, Developmental Biology & Genetics; JD/MS in Natural Resources Science & Management; JD/MPH in Public Health Administration & Policy (8); JD/MA in Bioethics; and JD/MS in Chemistry. We have worked closely with the Joint Degree Program graduate programs to recruit these impressive applicants and arrange financial support. One incoming JDP student has been awarded the 2009-10 **Minnesota Intellectual Property Law Association Scholarship** and one student was awarded the first **Wolf Scholarship in Law, Health & the Life Sciences**. Five students received a partial **JDP Scholarship**, three received a partial **Law School Scholarship**, and two received a partial **School of Public Health Scholarship**. Four students received a guaranteed **Graduate Research or Teaching Assistantship**.

Graduate School students are also eligible to apply for the Mark and Judy Yudof Fellowship. This award is for graduate students (Masters or PhD) pursuing interdisciplinary work whose content is focused in the areas of science policy and ethics. One award is made annually, granting full resident tuition plus a stipend of \$18,000 for the academic year. For more information, see [www.grad.umn.edu/fellowships/ended/](http://www.grad.umn.edu/fellowships/ended/).



JDP students at the Fall 2008 Advisory Board Reception. From L to R: Crystal Liu, JD, MPH candidate in Public Health Administration & Policy; Greg Long, JD, MD candidate in Medicine; Geeta Naidu, JD, MPH candidate in Public Health Administration & Policy; and Taylor Pierce, JD, MPH candidate in Public Health Administration & Policy.

# Student Honors & Achievements

Students in the Joint Degree Program are talented, and innovative, and committed. They are doing work in their fields of study. We are proud to list their selected accomplishments in 2008-09:

**Lauren Beach, JD, PhD** candidate in Molecular, Cellular, Developmental Biology & Genetics, spent the 2008-09 school year completing her first year of law school. She also co-founded and administered the Point Foundation Alumni Association's Regional Community Service Networks. This year, Ms. Beach won scholarships from PFund Foundation and Point Foundation in recognition of her academic achievements and service benefiting GLBTA communities.

**Mollie Gurian, JD, MPH** candidate in Public Health Administration & Policy, served as one of the two 1L representatives on the board of the Public Interest Law Students Association. During Summer 2009, she received a Robina Public Policy Fellowship from the Law School to work as a law clerk for the housing and disability attorneys at AARP in Washington, DC.

**Rachel Herder, JD, PhD** candidate Molecular, Cellular, Developmental Biology & Genetics participated in the National Moot Court course at the Law School. In May of 2009, she was the recipient of the Developmental Biology Program Training Grant from the University of Minnesota.

**Katherine Dick Krueger, JD, PhD** candidate in Molecular, Cellular, Developmental Biology & Genetics, received her doctorate in September 2008. She was recently published in *PLoS One* (Krueger K.A. et al., SNP haplotype mapping in a small ALS family. *PLoS One*. 2009;4(5):e5687.).

**Jamie Kurtz, JD**, candidate in Pharmacology, spent Summer 2008 interning at the Wisconsin Alumni Research Foundation (WARF) reviewing patents and interviewing UW inventors.

**Crystal Liu, JD, MPH** candidate in Public Health Administration & Policy returned as a Summer Associate for Hogan & Hartson in Washington, DC, where she worked in the summer of 2008. Her article on HLA tissue typing and PGD was published by the *Journal of Bioethical Inquiry*. Her article, "Limiting Access to Infertility Services: Using a Historical Analysis and the Victorian Experience to Shed Light on What is a Justified Limitation on Reproductive Freedom," was recently published in the *Minnesota Journal of Law, Science & Technology*. She received a Consortium Award to return to Australia to study the legislation surrounding donor conception, anonymity, and access to identifying information.

**Geeta Naidu, JD, MPH** candidate in Public Health Administration & Policy, interned in Fall 2008 with the Minnesota Department of Human Services Health Care Administration Budget and Legislative group. She spent Summer 2009 working as a law clerk at the U.S. Department of Health and Human Services Office of Counsel to the Inspector General specializing in health care fraud. She recently received a Consortium Scholars Grant from the Consortium on Law and Values in Health, Environment & the Life Sciences to complete her Public Health Master's project, which is focused on improving access to dental care for Medicaid enrolled children.

**Taylor Pierce, JD, MPH** candidate in Public Health Administration & Policy, worked for the Refugee Health Program of the Minnesota Department of Health and volunteered at the Battered Women's Legal Advocacy Project during 2008-09. In summer of 2009, Ms. Pierce worked at the Centre for Public Interest Law (CEPIL) in Accra, Ghana on human rights and housing rights issues as a Robina and Upper Midwest Human Rights Fellow.

**Christopher Pinahs, JD, MS** candidate in Plant Biological Sciences joined the Joint Degree Program in 2008, following his first year in the Plant Biological Sciences Graduate Program, where he conducted research in collaboration with Dr. Peter Reich and Dr. Rebecca Montgomery. His thesis work examines the effect of elevated climate on seed germination for Minnesota temperate and boreal species.

**Tchao-Hou Thao, JD, MD** candidate in Medicine spent Summer 2009 as an extern for the Honorable Richard H. Kyle, Senior U.S. District Judge, District of Minnesota.

**Amber Thomas, JD, MPH** candidate in Public Health Administration & Policy, was selected by her peers to serve as the 2008-09 student representative to the JDP Governing Committee. In 2009-10 she will serve as an Articles Editor for the *Minnesota Journal of Law, Science & Technology*.

**Christopher Walker, JD, MPH** candidate in Epidemiology, held a student position with the Minnesota Department of Health, where he was very involved in developing, implementing, and working on H1N1 surveillance during the 2009 outbreak. He also helped with the 2008-09 Haemophilus Influenza serotype B outbreak investigation of vaccination patterns and vaccine efficacy in Minnesota.

**Lindsey Yock, JD, MD** candidate in Medicine, is in her second year of medical school, having completed the law school course work for the Joint Degree Program in the summer of 2007. She completed her JD *magna cum laude* in May 2008, with a Concentration in Health Law & Bioethics.

# Joint Degree Program Proseminar

Since 2000 the Joint Degree Program has offered a Proseminar course required of all Joint Degree Program students each Fall. Entitled **"Law, Health & the Life Sciences: Joint Degree Program Proseminar,"** Law 6875 is a one-credit pass/fail seminar that meets Wednesdays over lunch and provides a supportive and collegial forum in which students can explore the interdisciplinary issues that our Joint Degree Program addresses with faculty from the cooperating programs and other experts.

In recent years, the Proseminar has been divided into two sections. The first section, required for students in the first two years of the Joint Degree Program, invites guest speakers to present to the group on the legal, ethical, and policy implications of their work, followed by discussion led by students. The roster of speakers for this section changes every year and includes University of Minnesota faculty and researchers, as well as lawyers and other law or science professionals in the community. This section is open to non-Joint Degree Program students with advanced degrees in health or the life sciences by consent of the instructors if space permits. In Section 2, Joint Degree Program



*Prof. Colin Campbell, PhD; Prof. Susan M. Wolf, JD, and former Adjunct Assoc. Prof. Jordan Paradise, JD, with 2008 Proseminar students.*



*JDP Advisory Board Member Ann Russell, JD, MSW and JDP student Lindsey Yock, JD, MD candidate in Medicine at the Fall 2008 Advisory Board Reception.*

In Fall 2008, Section 1 of the Proseminar was led by **Prof. Susan Wolf, JD**. The schedule included:

- **Anne Barry, JD, MPH**, Adjunct Assistant Professor, Health Policy & Management, School of Public Health, University of Minnesota and Minnesota Department of Human Services, on **"Health and Human Services Compliance Issues"**;
- **Leigh Turner, PhD**, Professor, Center for Bioethics, University of Minnesota, on **"End-of-Life Issues and the Homeless"**;
- **Terrance L. Carlson, JD**, Senior Vice President, General Counsel and Corporate Secretary, Medtronic, on **"Device Regulation – Federal Preemption"**;
- **Mark Ellinger, JD, PhD**, Managing Principal, Fish & Richardson PC, on **"Should Stem Cells and Genes Be Patentable?"**;
- **Alexandra Mass, JD**, Associate Professor of Law, University of Minnesota Law School, on **"Climate Change and Carbon Sequestration: Assessing a Liability Regime for the Long-term Storage of Carbon Dioxide"**;
- **Michele Goodwin, JD, LL.M.**, Everett Fraser Professor of Law, University of Minnesota Law School, on **"Organ Transplantation and Financial Incentives"**;
- **Amy Monahan, JD**, Visiting Associate Professor of Law, University of Minnesota Law School; and Associate Professor of Law, University of Missouri School of Law, on **"The Role of Employers in Achieving Universal Health Care Coverage"**;
- **Martin Stillman, MD, JD**, Practicing physician, Hennepin County Medical Center; and Assistant Professor of Medicine, University of Minnesota Medical School, on **"Disclosing Medical Errors and Adverse Events to Patients"**;
- **Vanessa Laird, JD**, General Counsel, Enterprise Services, UnitedHealth Group, on **"The Evolving Role of Health Counsel: Challenges and Opportunities"**;
- **Barbara Shiels, JD**, Associate General Counsel, Office of the General Counsel, University of Minnesota, on **"Conflicting Approaches to Conflict of Interest: Ideas on How to Address Col Issues in Academic Medicine"**; and
- **Ralph Hall, JD**, Distinguished Visiting Professor of Law, University of Minnesota Law School; Counsel, Baker & Daniels; CEO MIR3 Medical LLC, on **"Who Controls Health Care Decisions: Personal Choice v. Government Regulation."**



JDP Advisory Board Member Ryan Johnson, JD, and JDP student Tchao-Hou Thao, JD, MD candidate in Medicine, at the Fall 2008 Advisory Board Reception.

students with more than 2 years of experience make presentations to their peers. Each student is responsible for making one presentation per term. Students are given broad latitude in choosing topics to present. Presentation options include results from their own research (either lab- or literature-based), a published article, or an overview of a developing topic within their general field of study. This 2-section format was designed to meet the needs of all Joint Degree Program students and to prepare advanced students to meet the challenges ahead.

Section 1 speakers for Fall 2009 will include:

- Michael Osterholm, PhD, MPH, Director, Center for Infectious Disease Research & Policy; Director, Minnesota Center of Excellence for Influenza Research and Surveillance; Professor, Division of Environmental Health Sciences, Adjunct Professor, Medical School, University of Minnesota on "Flu Pandemics";
- Steve Miles, MD, Professor, Center for Bioethics, Medical School; Affiliate Faculty, Center for Holocaust and Genocide Studies, and Concentration in Health Law & Bioethics, Law School; Practicing Physician in Internal Medicine, University of Minnesota on "Physician Accountability for Torture: International Practices 1975-2009";
- Art Erdman, PhD, Richard C. Jordan Professor and Morse Alumni Distinguished Teaching Professor, Department of Mechanical Engineering; Director, Medical Devices Center, University of Minnesota on "Medical Device Patents";
- Kim Otte, JD, MA, Legal Counsel, Mayo Clinic on "Conflict of Interest Rules: Protecting Patients or Stifling Invention?";
- Keith Halleland, JD, Founder, Halleland Lewis Nilan & Johnson; Founder, Halleland Health Consulting; General Counsel, Health Care Compliance Associate (HCCA) and Society of Corporate Compliance and Ethics (SCCE) on "Health Care";
- James Cloyd III, PharmD, Professor and Lawrence C. Weaver Endowed-Chair, Orphan Drug Development; Director, Center for Orphan Drug Research; Co-Director, Epilepsy Research and Education Program; Morse Alumni Distinguished Teaching Professor, Department of Experimental and Clinical Pharmacology, University of Minnesota on "Orphan Drugs and Rare Diseases: Policy, Regulatory and Development Issues";
- Gurumurthy Ramachandran, PhD, Professor, School of Public Health, University of Minnesota on "OSHA & NIOSH"; and
- William A. Toscano, PhD, Professor and Division Head, School of Public Health, University of Minnesota on "Globalization and Health."

Sections 2 and 3 were led by Adjunct Assoc. Prof. Jordan Paradise, JD, Associate Director of Research & Education, Consortium & Joint Degree Program and Prof. Colin Campbell, PhD, Associate Director of the Joint Degree Program. Student presenters discussed a variety of topics including: the 2008 presidential candidates' health care reform plans; direct-to-consumer marketing of genetic tests; water resources/water quality and Native American lands; recent developments in insurance coverage for "never events"; and a comparative analysis of access to infertility services in U.S. and Victoria, Australia.

For a list of all Proseminar speakers, visit [www.jointdegree.umn.edu](http://www.jointdegree.umn.edu).



JDP student Rachel Herder, JD, PhD candidate in Molecular, Cellular, Developmental Biology & Genetics, JDP Advisory Board Member Paul Savereide, JD, PhD, and JDP student Kei Holzapfel, JD, PhD candidate in Molecular, Cellular Developmental Biology & Genetics, at the Fall 2008 Advisory Board Reception.

# Concentration in Health Law & Bioethics

In 2008-09, the University of Minnesota Law School continued to offer concentrations, enabling law students to specialize in fields such as Health Law & Bioethics, Human Rights Law, and Labor & Employment Law.



“The Concentration provides students with an optimal opportunity to explore the intersections between the health sciences, law, ethics, and public policy through a broad curriculum, interactions with peers across the University, and exposure to leading experts and professionals in the field.”

—Jenny Patten, JD, MHA in Health Care Administration



Enrollment in the **Concentration in Health Law & Bioethics** continues to grow. In Spring 2009, 9 Law students completed the requirements of the Concentration: Camille Beshara, Ilina Chaudhuri, Andrea Johnson, Alissa Lyon, Anne McNamara, Jenny Cooner Patten, Sudha Rajan, Meredith Socha, and Christy Wells. An additional 12 law students have declared and are completing the Concentration requirements.

The Health Law & Bioethics Concentration allows students to focus their studies on health care delivery, public health law and ethics, international health, or issues in bioethics. The concentrations are available to all JD and LLM students, including those pursuing dual degrees. Students who have successfully completed the Concentration will receive a certificate of completion upon graduation and a notation will be added to their transcript stating that the requirements of the Concentration have been fulfilled.

Concentrations build upon and complement the Law School's rigorous standard curriculum and give students access to the expertise of faculty throughout the University. Interested students connect early in their legal education with the Faculty Chair and the Concentration Coordinator to discuss their intended course of study and how a Concentration can enhance their career development.

Prof. Susan Wolf is the Faculty Chair of the Concentration in Health Law & Bioethics and Carol Rachac coordinates the program. The Health Law & Bioethics Concentration requires 12 credits, including a combination of required and recommended courses in the Law School, Graduate School, School of Public Health, and Center for Bioethics.

## Health Law & Bioethics Concentration Faculty

Concentration faculty are drawn from across the University, including faculty from the Law School, School of Public Health, Medical School, and Center for Bioethics. As students immerse themselves in a wide range of interdisciplinary courses they will address law, bioethics, health care delivery, health care reform, genetics and assisted reproduction, mental health issues, insurance, and food and drug law. The following faculty include nationally distinguished scholars who teach courses related to health law and bioethics:

### Concentration Core Faculty—Law School:

Prof. Stephen F. Befort, JD (Law)  
Prof. Brian Bix, DPhil, JD (Law; Philosophy)  
Prof. Dale Carpenter, JD (Law)  
Prof. Ralph Hall, JD (Law)  
Prof. Jill Hasday, JD (Law)  
Prof. Michele B. Goodwin, JD, LLM (Law)  
Prof. Amy Monahan, JD (Law)



JD graduate Kari Bomesh, JD, MPH, and JD student Alissa Lyon, JD, MPH, completed the Concentration in Health Law & Bioethics.



Prof. Ruth Okediji, LLB, LLM, JD (Law)  
 Adjunct Assoc. Prof. Jordan Paradise, JD (Law)  
 Prof. Kathryn J. Sedo, JD (Law)  
 Prof. David S. Weissbrodt, JD (Law)  
 Prof. Susan M. Wolf, JD (Law; Medicine; Bioethics)  
 Prof. Judith T. Younger, JD, LLD (Law)

#### **Concentration Core Faculty—Outside the Law School:**

Prof. Dianne Bartels, RN, MA, PhD (Bioethics)  
 Prof. Muriel Bebeau, PhD (Dentistry; Bioethics; Educational Psychology)  
 Prof. Debra DeBruin, PhD (Bioethics; Medicine)  
 Prof. Carl Elliott, MD, PhD (Bioethics; Pediatrics; Philosophy)  
 Prof. John Eyster, PhD (History of Medicine)  
 Prof. Susan Bartlett Foote, JD, MA (Health Services Research & Policy)  
 Prof. Jennifer L. Gunn, PhD (History of Medicine)  
 Prof. Sarah Holtman, PhD, JD (Philosophy)  
 Prof. William D. Hueston, DVM, PhD (Veterinary Population Medicine; Public Health)  
 Prof. Susan D. Jones, PhD, DVM (Ecology, Evolution, and Behavior)  
 Prof. Jeffrey P. Kahn, PhD, MPH (Bioethics; Medicine; Public Health; Philosophy)  
 Prof. Rosalie Kane, DSW (Public Health; Social Work; Bioethics)  
 Prof. Barbara Koenig, PhD (Mayo Clinic & University of Minnesota; Bioethics)  
 Prof. Joan Liaschenko, RN, PhD (Bioethics; Nursing)  
 Prof. Mary Faith Marshall, PhD (Bioethics; Medicine)  
 Prof. Michelle Mason, PhD (Philosophy)  
 Prof. Steven H. Miles, MD (Bioethics; Medicine)  
 Prof. Michael T. Osterholm, PhD, MPH (Public Health)  
 Prof. Ed Ratner, MD (Bioethics; Medicine)  
 Prof. John Song, MD, MPH, MAT (Bioethics; Medicine)  
 Prof. Valerie Tiberius, PhD (Philosophy)  
 Prof. Leigh Turner, PhD (Bioethics)  
 Prof. Maryam Valapour, MD (Medicine; Bioethics)  
 Prof. Beth A. Virnig, PhD, MPH (Public Health; Bioethics)

For a complete list of Health Law & Bioethics Concentration faculty, visit [www.jointdegree.umn.edu/people/core\\_faculty](http://www.jointdegree.umn.edu/people/core_faculty).

### **Law School Student Organizations**

The Consortium works with student organizations such as the Health Law & Bioethics Association (HLBA) and Student Intellectual Property Law Association (SIPLA) and helps them offer events such as “Organ Transplantation/Donation/Sales: Ethics and Policy Panel” with Prof. Arthur Matas, MD, Director, Renal Transplant Program, Professor, Department of Surgery, University of Minnesota Medical School; Prof. Michele Goodwin, JD, LLM, Everett Fraser Professor of Law, University of Minnesota Law School; and Prof. Jeffrey Kahn, PhD, MPH, Director, Center of Bioethics, University of Minnesota.



#### **Health Law & Bioethics Association**

The Health Law & Bioethics Association (HLBA) is a student organization dedicated to providing students with practical career guidance in the field of health law and fostering awareness, critical thought, and debate about topics in bioethics. HLBA embraces interdisciplinary discourse and collaborates with students and organizations from other colleges at the University of Minnesota.

#### **Student Intellectual Property Law Association**

The Student Intellectual Property Law Association (SIPLA) strives to promote the study of and pursuit of careers in all aspects of intellectual property law for students with or without technical backgrounds, including careers in patent, copyright, and trademark law. SIPLA provides a forum for communication between students and intellectual property law practitioners and functions as a student network that encourages students to learn from the past experiences of others while formulating their personal career strategies.

For more information on student organizations, visit [www.law.umn.edu/prospective/studentorgs.html](http://www.law.umn.edu/prospective/studentorgs.html).



# Joint Degree Program Graduates

The Joint Degree Program graduated 11 students in 2008-09 for a total of 27 alumni to date:



**KELSEY BRODSHO**

JD/MS in Health Services Research, Policy & Administration

## **Kelsey Brodsho**

*JD/MS in Health Services Research, Policy & Administration*

Kelsey Brodsho came to the Joint Degree Program in 2003 after completing her BA in Public Health at Johns Hopkins University. Kelsey received her JD in May 2006 and her MS in November 2008. She is now an Associate at Halleland Lewis Nilan & Johnson.



**ILINA CHAUDHURI**

JD/MPH in Public Health Administration & Policy

## **Ilina Chaudhuri**

*JD/MPH in Public Health Administration & Policy*

Ilina Chaudhuri joined the Joint Degree Program in 2006 after she received a BS from Tufts University in Biology, Biomedical Engineering, and Community Health. Ilina received her JD in December 2008 and was granted her MPH in May 2009. She currently holds an Upper Midwest Human Rights Fellowship.

## **Lilly Ewing**

*JD/MS in Molecular, Cellular, Developmental Biology & Genetics*

Lilly Ewing joined the Joint Degree Program in 2006 after completing her first year of Law School. She received her BS in Health Sciences at Purdue University and her MA in English Studies at the University of London. Lilly received her MS in July 2008 and her JD in May 2009. She currently works at Wilson Sonsini Goodrich & Rosati in Palo Alto, California.



**ANDREW GIBBONS**

JD/MS in Science, Technology and Environmental Policy

## **Andrew Gibbons**

*JD/MS in Science, Technology and Environmental Policy*

In 2005, Andrew Gibbons joined the Joint Degree Program to pursue his JD and MS in Science, Technology and Environmental Policy. A University of Chicago graduate, he earned his BS in Geophysical Sciences in 2003. Andrew received his JD in December 2008 and his MS in January 2009. He is currently working as an Associate in the Energy and Environmental Practice Groups at Leonard Street & Deindard.



**LAUREL KILGOUR**

JD/MS in Molecular, Cellular Development Biology & Genetics

## **Laurel Kilgour**

*JD/MS in Molecular, Cellular Development Biology & Genetics*

Laurel Kilgour came to the Joint Degree Program in 2005 after completing a BS in Biology at Amherst College. Laurel received her JD and MS in May 2009. She is currently an Associate at Goodwin Proctor LLP in San Francisco, working on patent litigations and opinions.



**GARRET OLSON**

JD/MS in Computer Science and Bioinformatics

## **Garret Olson**

*JD/MS in Computer Science and Bioinformatics*

Garret Olson joined the Joint Degree Program in 2004, beginning his studies in the Graduate School. He graduated from Kalamazoo College in Michigan with a BS in Biology and a minor in Computer Science. Garret received his JD in October 2008 and his MS in May 2008. He is currently an Associate at Patterson, Thunten, Skaar, and Christensen.



**JENNY COONER PATTEN**

JD/MHA in Healthcare Administration

## **Jenny Cooner Patten**

*JD/MHA in Healthcare Administration*

Jenny Cooner Patten joined the Joint Degree Program in 2007. She is a graduate of Emory University with a BA in Sociology. Jenny received her JD and MHA in May 2009 and is the first JDP student to complete the JD/MHA combination. She is currently doing an Administrative Fellowship at St. Luke's Episcopal Health System in Houston, TX.



**SUSAN PERERA**

JD/MS in Molecular, Cellular, Developmental Biology & Genetics

## **Susan Pribyl Perera**

*JD/MS in Molecular, Cellular, Developmental Biology & Genetics*

Susan Perera joined the Joint Degree Program in 2006, after completing her first year in the Graduate School. She received a BS in Biochemistry with honors from the University of St. Thomas. Susan received her MS in October 2008 and her JD in December 2008 and is pursuing a career focusing on intellectual property law.

# Joint Degree Program Graduates



**SARAH JOHNSON PHILLIPS**  
JD/MS in Science, Technology and  
Environmental Policy

## **Sarah Johnson Phillips**

*JD/MS Science, Technology and Environmental Policy*

Sarah Johnson Phillips joined the Joint Degree Program in 2006 after graduating from Carleton College with a B.A. in Geology. Sarah received her JD and MS in Science, Technology and Environmental Policy in May 2009. She is joining the energy group at Stael Rives, LLP focusing her work on renewable energy.



**MARIE QUASIUS**  
JD/MPH in Environmental Health

## **Marie Quasius**

*JD/MPH in Environmental Health*

Marie Quasius is a 2003 graduate of the University of Michigan with a BA in Comparative Literature and came to the Joint Degree Program in 2005. Marie received her MPH in December 2008 and her JD in May 2009. She will be working as an Associate at K&L Gates in Seattle.

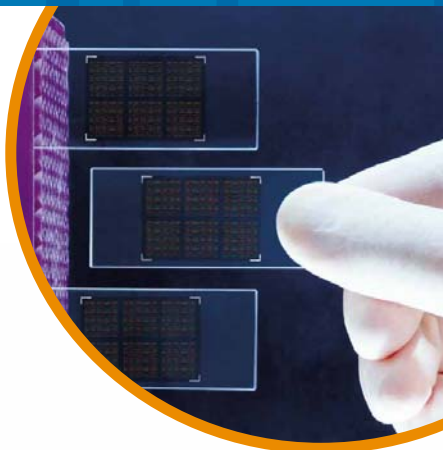


**KATHLEEN (K.J.) STARR**  
JD/MPH in Community Health  
Education

## **Kathleen (K.J.) Starr**

*JD/MPH in Community Health Education*

Kathleen Starr joined the Joint Degree Program in Fall 2004, beginning her studies in the Law School. She received a BA *cum laude* in Anthropology from Macalester College. Kathleen completed her JD in May 2008 and her MPH in April 2009. She is an Intermediate Program Evaluator at the Office of the Legislative Auditor.



## Joint Degree Program Alumni

Our first two students graduated in May 2002 and accepted positions with law firms offering strong intellectual property practices: Fredrikson & Bryon in Minneapolis and Medlen & Carroll in Madison, Wisconsin. In 2008-09 we graduated 11 students, for a total of 27 alumni.

“The Joint Degree Program provides a valuable forum for similarly-driven students to share interests and passions, to challenge each others’ assumptions, and to develop strong professional networks. I plan to continue to avail myself of the Lecture series and hope to stay connected to the Program by serving as a mentor for future Joint Degree students.”

-JDP Alumna Lisbeth Robinson, JD, PhD



### Joint Degree Program Alumna Profile

**Lisbeth Robinson, JD, PhD**

Lisbeth Robinson is a 2008 graduate of the Joint Degree Program and the first student to graduate with a JD and a PhD. She began her law studies in 2001, and was awarded

a prestigious Graduate Fellowship to support her first year of Graduate studies. Dr. Robinson won the 2004 Best Brief award in the University of Minnesota Law Schools Maynard Pirsig Moot Court and is first author of three peer-reviewed publications. She is an Associate in the Biotechnology patent group at the Twin Cities office of Fish & Richardson, P.C., where her practice emphasizes patent prosecution. Dr. Robinson is admitted to practice in Minnesota. She is also registered to practice before the U.S. Patent & Trademark Office.

“The Joint Degree Program encouraged me to pursue multi-disciplinary training in law and science. I can definitely say that I would not be prosecuting biotechnology patents right now if it were not for my experience in the JDP. When I started law school, I had an undergraduate science degree. I was interested in biotechnology patents, but soon found out that without an advanced degree in the field, employment options were very limited. The JDP gave me the opportunity to not only get my law degree from a top-20 law school, but also get the necessary advanced degree for biotech patent law.”

-JDP Alumnus Robert A. Goetz, JD, MS

### Joint Degree Program Alumni

- Robert Berlin, JD, MPH
- Kari Bomash, JD, MPH
- Kelsey Brodsho, JD, MS
- Ilina Chaudhuri, JD, MPH
- Trevor K. Copeland, JD, MS
- Jill Dabrowski, JD, MPH
- Sharada Devarasetty, JD, MS
- Lily Ewing, JD, MS
- Erin Furlong, JD, MPH
- Leslie Rawles Gallagher, JD, MS
- Andrew Gibbons, JD, MS
- Glenna Gilbert, JD, MS
- Robert Goetz, JD, MS
- Margaret Jacot, JD, MS
- Stephanie Johnson, JD, MS
- Rebekah Kent, JD, MS
- Laurel Kilgour, JD, MS
- Ji Eun Kim, JD, MS
- Melanie E. Kleiss Boerger, JD, MS
- Garrett Olson, JD, MS
- Jenny Cooner Patten, JD, MHA
- Susan Pribly Perera, JD, MS
- Sarah Johnson Phillips, JD, MS
- Marie Quasius, JD, MPH
- Lisbeth Robinson, JD, PhD
- KJ Starr, JD, MPH
- Jeannine J. Thiele, JD, MS
- Faegre & Benson (MN)
- Fennemore & Craig (AZ)
- Fish & Richardson (MN)
- Fredrikson & Bryon (MN)
- Fulbright & Jaworski (DC)
- Goodwin & Proctor (MA & CA)
- Halleland, Lewis, Nilan, Sipkins & Johnson (MN)
- Heller Ehrman (CA)
- Hogan & Hartson (DC)
- K & L Gates (WA)
- Law Offices of Stephan C. Volker (CA)
- Leonard, Street & Deinard (MN)
- Medica (MN)
- Medlen & Carroll (WI)
- Minnesota AIDS Project (MN)
- Minnesota Attorney General's Office (MN)
- Minnesota Department of Employment & Economic Development (MN)
- Minnesota Department of Health & Human Services (MN)
- Minnesota Justice Foundation Clerkship at Farmers' Legal Action (MN)
- Minnesota State Office of the Legislative Auditor (MN)
- Montana State Supreme Court Clerkship (MT)
- Patterson, Thuente, Skaar, and Christensen (MN)
- Peters & Peters (MN)
- Proskauer & Rose (MA, NY)
- Robins, Kaplan, Miller & Ciresi (MN)
- Roper & Quigg (IL)
- Sen. Paul Wellstone's office (MN)
- Schiff Hardin & Waite (IL)
- St. Luke's Episcopal Health System (TX)
- Sterne, Kessler, Goldstein & Fox (DC)
- Steel Rives LLP (MN)
- Thompson West (MN)
- Wilson Sonsini Goodrich & Rosati (CA)
- University of Georgetown Law School
- U.S. Bank (MN)
- U.S. General Accounting Office (DC)

Graduates have accepted judicial clerkships, as well as positions in law firms, academia, and businesses that focus on science and medicine. Students have found a wide range of summer and permanent positions including:

- American Medical Systems (MN)
- BioBusiness Alliance (MN)
- Brinks, Hofer, Gilson & Lione (IL)
- Casimir Jones (WI)
- Covington & Burling (CA)
- Defenders of Wildlife (DC)
- Dorsey & Whitney (MN)
- Earthjustice (CO and WA)



### Joint Degree Program Alumni Profile

**Robert A. Goetz, JD, MS**

Robert Goetz is a 2002 graduate of the Joint Degree Program, with a JD plus an MS in Molecular, Cellular, Developmental Biology & Genetics. After graduating, he worked as an Associate at Medlen & Carroll, a biotechnology patent prosecution and litigation firm located in Madison, WI, from 2002-07. In 2007, Mr. Goetz and several other attorneys from Medlen & Carroll co-founded the law firm Casimir Jones in Madison. Mr. Goetz is a Partner/Shareholder at Casimir Jones, where he focuses his practice primarily on prosecuting U.S. and foreign patent applications, providing patent opinions, and counseling clients on issues involving infringement, validity, enforceability, and freedom to operate. Mr. Goetz's experience includes patent litigation, strategy, counseling, and patent portfolio management in the pharmaceutical, biotechnology, chemical, and mechanical device fields. Mr. Goetz is admitted to practice in Wisconsin, and before the Western District of Wisconsin. He is also registered to practice before the U.S. Patent & Trademark Office.

# Joint Degree Program Faculty & Governing Committee

The Joint Degree Program is run by a faculty Director and Associate Director with the help of a Governing Committee comprised mainly of the Director of Graduate Studies (DGS) or equivalent in each cooperating program plus a Joint Degree Program student elected by his or her peers.



Susan M. Wolf, JD

**Susan M. Wolf, JD**, is the McKnight Presidential Professor of Law, Medicine & Public Policy at the University of Minnesota; the Faegre & Benson Professor of Law at the University of Minnesota Law School; Professor of Medicine at the University of Minnesota Medical School; and a Faculty Member in the University's Center for Bioethics.

She is also founding Director of the University's Joint Degree Program in Law, Health & the Life Sciences and founding Chair of the University's Consortium on Law and Values in Health, Environment & the Life Sciences. She received her *AB summa cum laude* from Princeton University and her JD from Yale Law School, with graduate work at Harvard University.

Prof. Wolf's recent research has been funded principally by the National Institutes of Health (NIH); National Science Foundation (NSF); the John D. and Catherine T. MacArthur Foundation; the Law School's Robina Research Fund for Law, Public Policy & Society (LaPPS); and The Greenwall Foundation. She writes frequently on genetics and genomics, assisted reproduction, death and dying, women's health care, human subjects research, and other topics in health law and bioethics.

Prof. Wolf's biography and bibliography may be found at [www.law.umn.edu/facultyprofiles/wolfs.html](http://www.law.umn.edu/facultyprofiles/wolfs.html).



William Toscano, Jr., PhD

**William Toscano, Jr., PhD**, is Professor and Head of the Division of Environmental Health Sciences and Head of Global Programs at the University of Minnesota School of Public Health. He was elected a Fellow of the American Association for the Advancement of Science in 2006. He serves on numerous editorial boards, including the Faculty editorial board of the *Minnesota Journal of Law, Science & Technology*. He joined the Joint Degree Program as Associate Director in July 2009. Prof. Toscano replaces Professor Colin Campbell, PhD (Pharmacology) who stepped down this year after serving as Associate Director of the Joint Degree Program since 2000.

Prof. Toscano's biography and bibliography of publications may be found at [www.sph.umn.edu/faculty/faculty.asp?x5=tosca001](http://www.sph.umn.edu/faculty/faculty.asp?x5=tosca001).



Colin R. Campbell, PhD

**Colin R. Campbell, PhD**, is an Associate Professor in the Department of Pharmacology at the University of Minnesota Medical School. He was Associate Director of the Joint Degree Program from 2000-09. Prof. Campbell is also Co-Director of the University of Minnesota's Life Sciences Summer Undergraduate Research Program. He received his BS in Biology from Fairfield University and his PhD in Biochemistry from Boston University.

More information on his research and publications may be found at [www.pharmacology.med.umn.edu/staffcampbell.html](http://www.pharmacology.med.umn.edu/staffcampbell.html).



Jordan Paradise, JD

**Jordan Paradise, JD**, was the Associate Director of Research & Education for the Consortium and the Joint Degree Program from 2005-09. She was also an Adjunct Associate Professor of Law, a Research Associate in the Center for Bioethics, and the Faculty Editor-in-Chief of the *Minnesota Journal of Law, Science & Technology (MJLST)*. Beginning

in Fall 2009 she will be on the faculty at Seton Hall Law School. She received her BS from the University of Michigan and her JD from Chicago-Kent College of Law.

More information on Professor Paradise may be found at [http://law.shu.edu/Faculty/display-profile.cfm?customel\\_datapageid\\_4018=58696](http://law.shu.edu/Faculty/display-profile.cfm?customel_datapageid_4018=58696).



Kathleen Thiede Call, PhD

## GOVERNING COMMITTEE

**Kathleen Thiede Call, PhD**, is Associate Professor and Director of Graduate Programs in Health Services Research, Policy, and Administration in the School of Public Health. Prof. Call received her doctorate from the University of Minnesota.

Prof. Call's biography and publications may be found at [www.sph.umn.edu/faculty/faculty.asp?x5=callx001](http://www.sph.umn.edu/faculty/faculty.asp?x5=callx001).





Debra DeBruin, PhD

**Debra DeBruin, PhD**, is an Assistant Professor, Director of Graduate Studies, and Associate Director, Center for Bioethics; and Assistant Professor, Department of Medicine, University of Minnesota. Currently, she co-directs the Minnesota Pandemic Ethics Project, under contract with the Minnesota Department of Health.

In addition to her work in public health policy, she teaches and conducts research in the ethics of research.

For more information on Prof. DeBruin visit [www.ahc.umn.edu/bioethics/facstaff/debruin\\_d/home.html](http://www.ahc.umn.edu/bioethics/facstaff/debruin_d/home.html).



Susan Galatowitsch, PhD

**Susan Galatowitsch, PhD**, is Professor of Horticultural Science in the Division of Plant Sciences in the College of Food, Agriculture and Natural Resource Sciences. In 2008-09 she served as Director of Graduate Studies in Conservation Biology. Prof. Galatowitsch received her doctorate from Iowa State University in 1993. She is

the Fesler-Lambert Chair in Urban & Regional Affairs.

More information on Prof. Galatowitsch may be found at [www.consbio.umn.edu/SG/](http://www.consbio.umn.edu/SG/).



Judith Garrard, PhD

**Judith Garrard, PhD**, is a research psychologist with postgraduate training in epidemiology. She is a Professor in the Division of Health Policy and Management, and Senior Associate Dean of Academic Affairs and Research in the School of Public Health.

For more information on Prof. Garrard, visit [www.pharmacy.umn.edu/faculty/garrard\\_judith/home.html](http://www.pharmacy.umn.edu/faculty/garrard_judith/home.html).



George D. Green, PhD

**George D. Green, PhD**, is the Morse-Alumni Distinguished Teaching Associate Professor of History and Associate Dean of the University of Minnesota's Graduate School. His scholarly specialty is American economic and business history. He earned his PhD in Economics and History at Stanford University.



Maria Hanratty, PhD, MPP

**Maria Hanratty, PhD, MPP**, is Associate Professor and Director of Graduate Studies at the Hubert H. Humphrey Institute of Public Affairs. Hanratty earned a doctorate in economics from Harvard University and a Master of Public Policy from Harvard's John F. Kennedy School of Government.

For more information on Prof. Hanratty, visit [www.hhh.umn.edu/people/mhanratty/](http://www.hhh.umn.edu/people/mhanratty/).



Sharon Jansa, PhD

**Sharon Jansa, PhD**, is Associate Professor and Director of Graduate Admissions in the Department of Ecology, Evolution, and Behavior. She received her PhD from the University of Michigan.

For more information on Prof. Jansa, visit [www.cbs.umn.edu/eeb/faculty/JansaSharon/](http://www.cbs.umn.edu/eeb/faculty/JansaSharon/).



Eric Keyes, JD

**Eric Keyes, JD**, is Assistant Dean of Students at the University of Minnesota Law School. She oversees student services for all of the 850 JD and LL.M students and advises student groups on public service programs. She received her JD *cum laude* from the University of Minnesota and was awarded the Excellence in Public Service Award.



Michael A. Kilgore, PhD

**Michael A. Kilgore, PhD**, is Associate Professor and Director of Graduate Studies in the Department of Forest Resources. He received his PhD in Natural Resources Economics, Policy, and Administration from the University of Minnesota.

For more information on Prof. Kilgore, visit [www.forestry.umn.edu/people/facstaff/kilgore/](http://www.forestry.umn.edu/people/facstaff/kilgore/).



Tom Neufeld, PhD

**Tom Neufeld, PhD**, is Associate Professor in the Department of Genetics, Cell Biology & Development and Co-Director of Graduate Studies in Molecular, Cellular, Developmental Biology & Genetics. He received his doctorate from the University of California, Berkeley.

For more information on Prof. Neufeld visit [www.cancer.umn.edu/research/profiles/neufeld.html](http://www.cancer.umn.edu/research/profiles/neufeld.html).



Amber Thomas, JD, MPH candidate

**Amber Thomas, JD, MPH candidate** in Public Health Administration & Policy, served as the 2008-09 student representative to the Governing Committee.



Kathleen Watson, MD

**Kathleen Watson, MD**, is an Associate Professor of Medicine, Residency Program Director for Internal Medicine, and Senior Associate Dean for Education at the University of Minnesota Medical School. She graduated from the University of Minnesota Medical School where she also completed her residency. She has an active practice in General Internal Medicine.

For more information on Dean Watson, visit [www.med.umn.edu/gim/faculty/watsonk/home.html](http://www.med.umn.edu/gim/faculty/watsonk/home.html).



Elizabeth V. Wattenberg, PhD

**Elizabeth V. Wattenberg, PhD**, is Associate Professor and Director of Graduate Studies in the Division of Environmental Health Science in the School of Public Health. She received her doctorate from the Massachusetts Institute of Technology.

For more information on Prof. Wattenberg, visit [www.sph.umn.edu/faculty/faculty.asp?x5=watte004](http://www.sph.umn.edu/faculty/faculty.asp?x5=watte004).

For more information about our Governing Committee members, visit [www.jointdegree.umn.edu/people/governing\\_committee2](http://www.jointdegree.umn.edu/people/governing_committee2).



# Joint Degree Program Advisory Board

The Joint Degree Program is indebted to an active and growing Advisory Board. The Board consists of prominent community members whose own work is at the intersection of law, policy, science, and health. Board members meet twice annually to advise Program faculty and staff and serve as mentors to the Joint Degree Program students. Each Fall the Board hosts a reception for the students. The law firm of Faegre & Benson hosted the reception in Fall 2008. The law firm of Frederikson & Byron will host the Fall 2009 reception.



Joint Degree Program students and Advisory Board Members at the Fall 2008 Advisory Board Reception.

## The 2008-09 Advisory Board includes:



Martha Brand, JD

**Martha Brand, JD**, now retired, was most recently Executive Director of the Minnesota Center for Environmental Advocacy (MCEA), a nonprofit organization working to protect Minnesota's natural resources, wildlife, and the health of its people. She earned her JD at Boston University. For more information on Martha Brand, visit [www.jointdegree.umn.edu/adv\\_bd#brand](http://www.jointdegree.umn.edu/adv_bd#brand).



Amos S. Deinard, Jr., MD, MPH

**Amos S. Deinard, Jr., MD, MPH**, is Associate Professor in the Department of Pediatrics, University of Minnesota Medical School, and School of Public Health. His long career has focused on aiding underserved communities in the Twin Cities. He worked for 15 years (1969-84) as the Pediatric Consultant to the Minneapolis Health Department's Maternal and Child Health program, followed by 15 years as Director of the Community-University Health Care Center (CUHCC). Prof. Deinard has received numerous awards, including the 2008 Distinguished Service Award of the Minnesota Chapter of the American Academy of Pediatrics, the University of Minnesota's Award for Outstanding Community Service, the Minneapolis Award for Contributions to the City of Minneapolis, and the Minnesota Department of Health Betty Hubbard Maternal and Child Health Leadership Certificate of Recognition. He received his MD and MPH from the University of Minnesota. For more information on Prof. Deinard, visit [www.jointdegree.umn.edu/adv\\_bd#deinard](http://www.jointdegree.umn.edu/adv_bd#deinard).



Brian Dorn, JD, PhD

**Brian Dorn, JD, PhD**, Merchant & Gould, PC, practices patent law with an emphasis on patent prosecution and client counseling (U.S. and foreign). His practice is concentrated in biotechnology and pharmaceuticals. He received his PhD in Biomedical Sciences with a concentration in Microbiology/Immunology and his JD *magna cum laude* from the University of Florida. For more information on Dr. Dorn, visit [www.jointdegree.umn.edu/adv\\_bd#dorn](http://www.jointdegree.umn.edu/adv_bd#dorn).



Mark Ellinger, JD, PhD

**Mark Ellinger, JD, PhD**, Managing Principal, Fish & Richardson, Twin Cities office. Fish & Richardson is one of the country's largest firms practicing intellectual property, litigation, and corporate law. Dr. Ellinger received a PhD in developmental biology from the University of Minnesota and a JD from Harvard University Law School. Prior to law school, Dr. Ellinger was a tenured Associate Professor at Southern Illinois University and a Visiting Scientist at Merck Sharp & Dohme Research Laboratories. For more information on Dr. Ellinger, visit [www.jointdegree.umn.edu/adv\\_bd#ellinger](http://www.jointdegree.umn.edu/adv_bd#ellinger).



Keith Hallelund, JD

**Keith Hallelund, JD**, is a founder and shareholder of Hallelund Lewis Nilan & Johnson, where he chairs the health law practice, and is a founder of the firm's affiliated consulting company, Hallelund Health Consulting. Keith focuses his practice in the areas of regulatory compliance, business transactions, and health care policy. He serves as general counsel for the Health Care Compliance Association (HCCA), as well as the Society of Corporate Compliance and Ethics (SCCE). For more information on Mr. Hallelund, visit [www.jointdegree.umn.edu/adv\\_bd#hallelund](http://www.jointdegree.umn.edu/adv_bd#hallelund).



Hubert (Skip) H. Humphrey, III, JD

**Hubert (Skip) H. Humphrey, III, JD**, is a Senior Fellow in Public Health Policy and Law in the Division of Epidemiology and Community Health at the University's School of Public Health, Of Counsel ACE Panel Member at Tunheim Partners, and currently serves on the national board of directors of AARP. Mr. Humphrey holds a BA degree from American University and a JD from the University of Minnesota. For more information on Mr. Humphrey, visit [www.jointdegree.umn.edu/adv\\_bd#humphrey](http://www.jointdegree.umn.edu/adv_bd#humphrey).



Ryan Johnson, JD

**Ryan Johnson, JD**, is a member of Fredrikson & Byron's Health Law, Life Sciences, Corporate, and Medicare Fraud and Abuse Groups. Mr. Johnson received his JD at the University of Minnesota. For more information on Mr. Johnson, visit [www.jointdegree.umn.edu/adv\\_bd#johnson](http://www.jointdegree.umn.edu/adv_bd#johnson).



Rep. Phyllis Kahn, PhD, MPA

**Rep. Phyllis Kahn, PhD, MPA**, is a member of the Minnesota legislature serving her 19th term. Her legislative interests include pension and investment policy, science and technology (most recently, DNA testing and the role of biotechnology in agriculture), information policy, natural resources, and women's rights. Rep. Kahn received a PhD in Biophysics from Yale and a MPA from the J.F.K. School of Government at Harvard University. For more information on Rep. Kahn, visit [www.jointdegree.umn.edu/adv\\_bd#kahn](http://www.jointdegree.umn.edu/adv_bd#kahn).

**Vanessa Laird, MA, JD**, is currently General Counsel, Enterprise Services, United Health Group. She was previously Vice President and Senior Counsel for Medtronic's Cardiac Rhythm Disease Management and Neuromodulation businesses, as well as Senior Legal Counsel (based in Tolochenaz, Switzerland) for Medtronic Europe, Middle East, and Africa. Ms. Laird holds a BA in English and political science from Williams College, *magna cum laude* with Highest Honors in English; a BA and MA in politics, philosophy, and economics from Oxford University (Worcester College); and a JD from Stanford University. For more information on Ms. Laird, visit [www.jointdegree.umn.edu/adv\\_bd#laird](http://www.jointdegree.umn.edu/adv_bd#laird).

**Kenneth A. Liebman, JD**, Faegre & Benson LLP, is chair of the firm's Medical Technology Industry Team and a member of the firm's management committee. He has also been an Adjunct Professor at the University of Minnesota Law School and William Mitchell Law School. Mr. Liebman received his JD from Yale Law School. For more information on Mr. Liebman, visit [www.jointdegree.umn.edu/adv\\_bd#liebman](http://www.jointdegree.umn.edu/adv_bd#liebman).

**David R. Melloh, JD**, chairs Lindquist & Vennum's Health Law practice group. He earned a BA from Carleton College, an MA in Political Science at the University of Minnesota, and received his JD from Vanderbilt University, where he was an editor of the *Vanderbilt Law Review*. For more information on Mr. Melloh, visit [www.jointdegree.umn.edu/adv\\_bd#melloh](http://www.jointdegree.umn.edu/adv_bd#melloh).

**Ruth A. Mickelsen, JD, MPH**, is a former Vice President and Ethics Advisor for Allina Hospitals and Clinics, a non-profit hospital and clinic organization. She is currently an Adjunct Professor at William Mitchell College of Law, teaching Bioethics and the Law, while pursuing a Masters degree in Bioethics and Health Policy through Loyola University Chicago. She received her MPH, 1986 from the Harvard School of Public Health and her JD, *cum laude*, from William Mitchell College of Law. For more information on Ms. Mickelsen, visit [www.jointdegree.umn.edu/adv\\_bd#mickelsen](http://www.jointdegree.umn.edu/adv_bd#mickelsen).



Kenneth A. Liebman, JD

**Kim Otte, JD, MA**, has been Legal Counsel at Mayo Clinic Rochester since 2002. Ms. Otte has been an adjunct professor of Health Law at the University of Minnesota, William Mitchell College of Law, and Hamline University School of Law. Ms. Otte holds a JD from the University of Minnesota and a Masters in Philosophy from the University of Minnesota, with areas of expertise in biomedical ethics and feminist philosophy. For more information on Ms. Otte, visit [www.jointdegree.umn.edu/adv\\_bd#otte](http://www.jointdegree.umn.edu/adv_bd#otte).



David R. Melloh, JD

**Winthrop A. Rockwell, JD**, Faegre & Benson LLP, concentrates on commercial and product liability litigation. He is a member of Faegre & Benson's Management Committee, where his responsibilities include practice development, strategy, and international matters. Mr. Rockwell is a Fellow of the British-American Project founded by the Royal Institute of International Affairs and the Johns Hopkins University School of Advanced International Studies. Before law school, he worked on the foreign desk of the *New York Times* and as an Assistant to the President of Dartmouth College. Mr. Rockwell received his JD from New York University. For more information on Mr. Rockwell, visit [www.jointdegree.umn.edu/adv\\_bd#rockwell](http://www.jointdegree.umn.edu/adv_bd#rockwell).



Ruth A. Mickelsen, JD, MPH

**Mark Rotenberg, JD, MA, MPhil**, has served as the University of Minnesota's General Counsel since 1992. He earned his BA, *magna cum laude*, from Brandeis University, and his MA, MPhil, and JD degrees from Columbia University, where he also served as an Editor of the *Columbia Law Review*. He is a member of the American Law Institute (ALI), and is an Adjunct Professor in both the Law School and the College of Liberal Arts at the University of Minnesota. For more information on Mr. Rotenberg, visit [www.jointdegree.umn.edu/adv\\_bd#rotenberg](http://www.jointdegree.umn.edu/adv_bd#rotenberg).

**Ann L. Russell, JD, MSW**, is a lawyer with 25 years of experience in advising health care entities. Now retired, she was most recently an Associate Counsel for Catholic Health Initiatives, a national nonprofit organization with over 78 hospitals, clinics, and skilled nursing facilities, she has also represented the University of Minnesota Hospital and Clinic and Hennepin County's Medical Center and Community Health Department. Ms. Russell teaches Biomedical Ethics at William Mitchell College of Law. Prior to practicing law, Ms. Russell was a psychiatric social worker in Hennepin County's Mental Health Center. For more information on Ms. Russell, visit [www.jointdegree.umn.edu/adv\\_bd#russell](http://www.jointdegree.umn.edu/adv_bd#russell).



Kim Otte, JD, MA

**Paul Savereide, JD, PhD**, earned his JD and PhD in Cell and Developmental Biology from the University of Minnesota. Dr. Savereide was recently a Senior Associate at Patterson, Thunette, Skaar, and Christensen, a Minneapolis law firm specializing in intellectual property law. Previously, he was a Senior Intellectual Property Attorney at Cargill, Inc. and Corporate Patent Counsel for Chiron Corporation in Emeryville, CA. He also worked as an Associate with the Minneapolis office of the Dorsey & Whitney law firm. He is a member of the Minnesota Bar and is registered to practice before the U.S. Patent and Trademark Office as a Patent Attorney. For more information on Dr. Savereide, visit [www.jointdegree.umn.edu/adv\\_bd#savereide](http://www.jointdegree.umn.edu/adv_bd#savereide).



Winthrop A. Rockwell, JD

**Debra A. Shetka, JD**, is Of Counsel to Fish & Richardson. She is a frequent speaker on biotechnology patent issues and has lectured on patent interference law at Stanford University, Santa Clara University School of Law, and the University of Washington. Ms. Shetka received her law degree at the University of Minnesota where she was Editor-in-Chief of the *Journal of Law & Inequality*. After law school, she clerked for the Honorable Daniel M. Friedman, U.S. Court of Appeals for the Federal Circuit. For more information on Ms. Shetka, visit [www.jointdegree.umn.edu/adv\\_bd#shetka](http://www.jointdegree.umn.edu/adv_bd#shetka).



Ann L. Russell, JD, MSW





Paul Saverside, JD, PhD



Byron E. Starns, JD



Martin Stillman, JD, MD



Margo S. Struthers, JD



Robert L. Thompson, JD, LL.M.



Judith Walker, JD

**Byron E. Starns, JD**, is a shareholder and partner at the firm of Leonard Street and Deinar, practicing in the areas of environmental and public law, energy, and regulated industries. He is admitted to practice in the State of Minnesota, the State of Illinois, before the U.S. District Court for the District of Minnesota, before the Eighth Circuit Court of Appeals, and before the U.S. Supreme Court. He earned his JD at the University of Chicago and his BA at Duke University. For more information on Mr. Starns, visit [www.jointdegree.umn.edu/adv\\_bd#starns](http://www.jointdegree.umn.edu/adv_bd#starns).

**Martin Stillman, JD, MD**, practices internal medicine at Hennepin County Medical Center and is Assistant Professor of Medicine at the University of Minnesota Medical School. He is both a Fellow and elected Board Member of the American College of Legal Medicine and is currently serving a second term as President of the Minnesota Medical Alumni Society. Dr. Stillman graduated from the University of Minnesota Law School in 1993 and the University of Minnesota Medical School in 1997. He completed his training in internal medicine at Hennepin County Medical Center in 2000 and then served one year as Chief Resident. During his residency, he was recognized as an outstanding teacher, winning a Minnesota Medical Foundation Distinguished Teaching Award. For more information on Dr. Stillman, visit [www.jointdegree.umn.edu/adv\\_bd#stilm](http://www.jointdegree.umn.edu/adv_bd#stilm).

**Margo S. Struthers, JD**, Oppenheimer Wolf & Donnelly LLP, is Chair of the firm's Health Law Practice Group. She represents a variety of health care clients, including hospitals and other health care providers, provider associations, managed care and other insurance companies, and medical manufacturers. She is currently an Adjunct Professor at the University of Minnesota Law School teaching a seminar on Health Care Fraud and Abuse. She received her JD at the University of Minnesota. For more information on Ms. Struthers, visit [www.jointdegree.umn.edu/adv\\_bd#struthers](http://www.jointdegree.umn.edu/adv_bd#struthers).

**Robert L. Thompson, JD, LL.M.**, joined Lindquist & Vennum in 2006 and focuses his practice on corporate and business law, mergers and acquisitions, and antitrust law, with particular emphasis on the life sciences industries. He earned an LL.M. at New York University School of Law and received his JD from the University of Oregon School of Law. For more information on Mr. Thompson, visit [www.jointdegree.umn.edu/adv\\_bd#thompson](http://www.jointdegree.umn.edu/adv_bd#thompson).

**Judith Walker, JD**, is Vice President of Regulatory Affairs and Chief Compliance and Ethics Officer for Blue Cross and Blue Shield of Minnesota. Ms. Walker is accountable for providing leadership on regulatory compliance issues and for maintaining the company's compliance and ethics program. Ms. Walker received her undergraduate degree from St. Mary's University in Winona, MN and her law degree from Hamline University School of Law. For more information on Ms. Walker, visit [www.jointdegree.umn.edu/adv\\_bd#walker](http://www.jointdegree.umn.edu/adv_bd#walker).

For more information on the Joint Degree Program, visit  
[www.jointdegree.umn.edu](http://www.jointdegree.umn.edu).



**Joint Degree Program**  
in Law, Health & the Life Sciences<sup>\*</sup>  
**Consortium on Law and Values**  
in Health, Environment & the Life Sciences<sup>\*</sup>



Conference participants view the Consortium and JDP display table at the 10th Anniversary Conference.



Prof. Judy Iles, PhD, University of British Columbia, speaks at the 10th Anniversary Conference.



# 2008-09 Events & Co-Sponsored Activities

The University of Minnesota's Consortium on Law and Values in Health, Environment & the Life Sciences and the Joint Degree Program in Law, Health & the Life Sciences sponsor numerous events each year to create a community of interdisciplinary thinkers on law and science. We welcome students, faculty, legislators, policymakers, attorneys, researchers, healthcare professionals, and community members. For video of past events, visit [www.lifesci.consortium.umn.edu](http://www.lifesci.consortium.umn.edu).



Panelists on "What's Next for Centers Working on the Societal Implications of Biomedicine & the Life Sciences?" at the 10th Anniversary Conference included: Prof. Larry Gostin, JD (Georgetown University/Johns Hopkins University); Prof. Arthur Caplan, PhD (University of Pennsylvania); and Prof. I. Glenn Cohen, JD (Harvard University).

Prof. Gary Marchant, PhD (Arizona State University), and JDP Governing Committee Member Judith Garrard, PhD (University of Minnesota), at the 10th Anniversary Gala Dinner.

# 10<sup>th</sup> Anniversary Conference



Prof. Isaac Kohane, MD, PhD (Harvard Medical School), presents on "What's Next in Genomic Research? Open Access to Data" at the 10th Anniversary Conference.



Consortium Members host display tables with information about their programs at the 10th Anniversary Conference.

## 10<sup>th</sup> Anniversary Conference

On March 6, 2009 the University of Minnesota's Consortium on Law and Values in Health, Environment & the Life Sciences, and Joint Degree Program in Law, Health & the Life Sciences celebrated our 10<sup>th</sup> Anniversary with a gala dinner and a national conference on "What's Next in Law, Health & the Life Sciences? Debating Openness, Access & Accountability." This conference was also funded in part by the Robina Fund for Conferences on Law, Public Policy & Society (LaPPS) and was the inaugural Robina conference.

The conference focused on what issues are looming in law, health, and the life sciences. Presentations from national experts addressed emerging issues in genomic, neuroscience, health care, and environmental research, as well as science oversight. This conference also included a competitive call for papers with presentations of the top selected papers.

The conference opened with an introductory address by **Dean David Wippman** (University of Minnesota Law School) and a Welcome by **Prof. Susan M. Wolf, JD** (University of Minnesota) who discussed the "History and Future of the Consortium and Joint Degree Program."

At the first session of the conference, panelists discussed "What's Next in Genomic Research? Open Access to Data?" This panel was moderated by Harry Orr, PhD (Director, Institute of Human Genetics & Institute for Translational Neuroscience, University of Minnesota). Panelists included Isaac Kohane, MD, PhD (Harvard Medical School); Ellen Wright Clayton, MD, JD (Vanderbilt University); and Susan M. Wolf, JD (University of Minnesota).



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## 10<sup>th</sup> Anniversary Gala Dinner

The University of Minnesota's Consortium on Law and Values in Health, Environment & the Life Sciences and Joint Degree Program in Law, Health & the Life Sciences celebrated our 10th Anniversary with a March 5, 2009 Gala Dinner at the Frederick R. Weisman Art Museum.

The Gala Dinner celebrated the achievements of the Consortium and Joint Degree Program in the last 10 years and preceded the March 6 conference on "What's Next in Law, Health & the Life Sciences? Debating Openness, Access & Accountability."

University President **Robert Bruininks** delivered the welcome address at the dinner, reflecting on the Consortium's decade of achievements. Consortium Founding Chair and Joint Degree Program Founding Director **Professor Susan M. Wolf, JD**, reflected on the history and achievements of the Joint Degree Program and Consortium. **Professor Arthur Caplan, PhD**, Emanuel Robert Hart Professor of Bioethics, Chair, Department of Medical Ethics, and Director, Center for Bioethics, University of Pennsylvania, then delivered the dinner keynote address on "Conflict of Interest in Peer Review: What Ought to Be Done?" He praised the Consortium as a "leading program in the country on the societal implications of biomedicine & life sciences," and congratulated the Joint Degree Program for "producing the next generation of leaders at the interface of law, science, and medicine."



Profs. Michele Goodman, JD, LL.M., and Fonnelle D. N. Asiam, LL.B., LL.M., PhD, at the 10th Anniversary Gala Dinner.



Profs. Arthur Caplan, PhD, and Susan M. Wolf, JD at the 10th Anniversary Gala Dinner.



Senior Vice President Frank Cerra, MD (University of Minnesota) introduces keynote speaker Prof. Larry Gostin, JD (Georgetown University/Johns Hopkins University) at the 10th Anniversary Conference.



Adjunct Assoc. Prof. Jordan Paradise, JD (University of Minnesota) and Call for Papers winner Dr. Nili Karako-Eyal, JSD, Law Lecturer (The College of Management Academic Studies, Israel) at the 10th Anniversary Gala Dinner.



"What's Next in Neuroscience Research? New Uses in Law & National Security" panelists from Left to Right: Prof. Apostolos Georgopoulos, MD, PhD (University of Minnesota); Prof. Stephen Morse, PhD, JD (University of Pennsylvania); Prof. Jonathan Moreno, PhD (University of Pennsylvania); and Prof. Judy Illes, PhD (University of British Columbia).

The second session on **"What's Next in Neuroscience Research? New Uses in Law & National Security?"** was moderated by Michael K. Georgieff, MD (Director, Center for Neurobehavioral Development, University of Minnesota). Panelists included Judy Illes, PhD (University of British Columbia); Jonathan Moreno, PhD (University of Pennsylvania); Stephen J. Morse, PhD, JD (University of Pennsylvania Law School); and Apostolos P. Georgopoulos, MD, PhD (University of Minnesota).

The luncheon keynote on **"The Challenges of Global Health: What the Next Decade Will Bring"** was presented by Larry Gostin, JD (Director, O'Neill Center for National and Global Health Law, Georgetown University/Johns Hopkins University), and was moderated by Senior Vice President Frank Cerra, MD (Academic Health Center, University of Minnesota).

The luncheon was followed with a session on **"What's Next in Environmental Research? New Accountability for Environmental Harms & Energy Use."** This session was moderated by Elizabeth Wattenberg, PhD (Environmental Health, University of Minnesota). Panelists included Robert Bullard, PhD, (Clark Atlanta University); John Sheehan, MS (Scientific Program Coordinator for Biofuels and the Global Environment, Institute on the Environment, University of Minnesota); and Deborah Swackhamer, PhD (Co-Director, Water Resources Center, University of Minnesota).

The afternoon portion of the conference included concurrent sessions. Session A was on **"What's Next for Centers Working on the Societal Implications of Biomedicine & the Life Sciences?"** This session was moderated by Jeffrey P. Kahn, PhD, MPH (Director, Center for Bioethics, University of Minnesota). Contributing panelists included Larry Gostin, JD (Director, O'Neill Center for National and Global Health, Georgetown Law/Johns Hopkins University); Arthur L. Caplan, PhD (Director, Center for Bioethics, University of Pennsylvania); and I. Glenn Cohen, JD (Assistant Professor and former Academic Fellow, Petrie-Flom Center for Health Policy, Biotechnology, and Bioethics, Harvard University).



Prof. Robert Bullard, PhD (Clark Atlanta University), speaks at the 10th Anniversary Conference.

Session B was on **"New Voices: Top Papers."** Moderated by Adjunct Associate Professor Jordan Paradise, JD (Associate Director of Research & Education, Consortium and Joint Degree Program, University of Minnesota). This session included presentation of papers on:

- **"Restricting Access to Infertility Services: What is a Justified Limitation on Reproductive Freedom?"** by Crystal Liu, JD/ MPH candidate (University of Minnesota).
- **"Signals, Warranties, Accountability and Healthcare Effectiveness"** by Adam Candeub, JD (Associate Professor, College of Law; and Acting Director, Intellectual Property and Communications Law Program, Michigan State University); and
- **"Has Non-U.S. Case Law Recognized a**

#### **Legally Protected Autonomy Right?"**

by Dr. Nili Karako-Eyal, JSD (Law Lecturer, The College of Management Academic Studies, Israel).

The conference concluded with a final session on **"What's Next in Science Oversight? New Strategies & Accountability."** This session was moderated by Stephen Kelley, JD (Director, Center for Science, Technology, and Public Policy, University of Minnesota). Panelists included Cary Coglianese, JD, PhD, MPP (University of Pennsylvania); R. Alta Charo, JD (University of Wisconsin Law School); Gary Marchant, JD, MPP, PhD (Arizona State University); and Jennifer Kuzma, PhD (Humphrey Institute of Public Affairs, University of Minnesota).

This event provided 7.25 hours of continuing legal education credit (CLE) for attorneys and 5.25 AMA PRA Category 1 Credit(s) for physicians and health care professionals. This conference can be viewed at [www.lifesci.consortium.umn.edu/conferences/2009\\_whatsnext](http://www.lifesci.consortium.umn.edu/conferences/2009_whatsnext).

On April 15, 2010, we will present our 2009-10 conference on **"The Challenge of Governing Nanobiotechnology: Reinventing Oversight for the 21<sup>st</sup> Century."** More information on the annual conference is available at [www.lifesci.consortium.umn.edu](http://www.lifesci.consortium.umn.edu).



Audience members listen at the 10th Anniversary Conference.



E. Thomas Sullivan  
Senior Vice President for Academic Affairs and  
Provost, University of Minnesota



## Joint Degree Program in Law, Health & the Life Sciences\*

### Consortium on Law and Values in Health, Environment & the Life Sciences\*



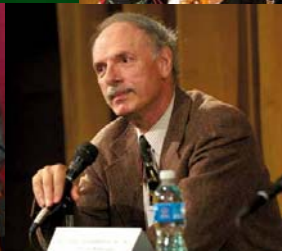
(Below) Prof. Ellen Wright Clayton,  
PhD (Vanderbilt University), speaks  
at the 10th Anniversary Conference.



Profs. Susan Jones, PhD (University of Minnesota); Barbara Koenig, PhD (Mayo College of Medicine); Dianne Bartels, PhD (University of Minnesota); Bonnie LeRoy, MS, CGC (University of Minnesota); and Mary Faith Marshall, PhD (University of Minnesota) at the 10th Anniversary Dinner.



Senior Vice President Frank Cerra, MD (University of Minnesota) and Prof. Larry Gostin, JD (Georgetown University/Johns Hopkins University) at the 10th Anniversary Conference.



Prof. Apostolos P. Georgopoulos, MD, PhD (University of Minnesota), speaking at the 10th Anniversary Conference.



Call for Papers winner Prof. Adam Candebull, JD (Michigan State University), with University of Minnesota Law School Chief of Staff Nora Klaphake, JD, at the 10th Anniversary Gala Dinner.



# 10<sup>th</sup> Anniversary

Joint Degree Program  
in Law, Health & the Life Sciences

1999-2009

Consortium on Law and Values  
in Health, Environment & the Life Sciences



# Lecture Series on Law, Health & the Life Sciences

The Lecture Series has sponsored 3 lectures per year since 2000. Each lecture brings to campus an eminent scholar examining the societal implications of the life sciences, features faculty and others providing interdisciplinary commentary, and is followed by an invitational lunch discussion involving selected faculty members, community members, and government leaders as well as Joint Degree Program students. The 2008-09 Lecture Series focused on “Synthetic Biology: The Science, Ethics & Law of Creating New Life.”

## Wednesday, October 8, 2008



Robert M. Friedman, PhD,  
J. Craig Venter Institute

**Robert M. Friedman, PhD**, J. Craig Venter Institute, spoke on “**Synthetic Genomics: Risks and Benefits for Science and Society**.” **Prof. Jeffrey Kahn, PhD, MPH**, Center for Bioethics, University of Minnesota, and **Professor Benjamin Senauer, PhD**, Applied Economics, University of Minnesota, provided commentary.

Dr. Friedman worked to disentangle the set of concerns that is unique to synthetic genomics—where the use of synthetic genomics significantly adds to societal concerns about the use of biotechnology or new technology in general. He briefly reviewed the basics of this new technology and discussed its potential, that is, the reasons why this research is being pursued at the Venter Institute and many other labs around the world. He then turned to the above-mentioned societal issues, focusing on those aspects of synthetic genomics that make it different from other types of work with recombinant DNA.

**Robert Friedman, PhD**, is Deputy Director of the J. Craig Venter Institute facility in La Jolla, California. Friedman directs JCVI's Policy Center and is active in several projects ongoing in the Institute's Environmental Genomics Group.

## Tuesday, November 4, 2008



Prof. Arti K. Rai, JD,  
Duke University

**Prof. Arti K. Rai, JD**, Duke University School of Law, presented “**The Paradigm Shift of Synthetic Biology: Tensions between Innovation and Security**.” Commentary was provided by **Adjunct Assoc. Prof. Jordan Paradise, JD**, Law School, University of Minnesota, and **Prof. Shaun Kennedy, BSE**, Department of Veterinary Medicine, University of Minnesota.

Prof. Rai discussed how synthetic biology aims to affect a paradigm shift in biology, changing it from a relatively high-cost, centralized endeavor to one that operates through cheap DNA synthesis and standardized parts. She argued that the most passionate synthetic biology proponents envision a future in which decentralized networks of small firms and individual inventors can cheaply “hack” (i.e., improve) standardized DNA parts in the same way that they currently hack computer code. Prof. Rai maintained that the accelerated innovation potentially produced through decentralization and standardization could be extremely important for social welfare—results could include, for example, low-cost, environmentally friendly fuels.

**Prof. Arti K. Rai, JD**, is the Elvin R. Latty Professor of Law at Duke University School of Law. She is an expert in patent law, innovation policy, and law and the biopharmaceutical industry. Her current research, funded by the NIH, focuses on intellectual property issues raised by collaborative R&D in areas ranging from synthetic biology to drug development.

## Thursday, April 16, 2009



Prof. Drew Endy, PhD,  
Stanford University

**Prof. Drew Endy, PhD**, Stanford University, lectured on “**Dialogue and Notes on Synthetic Biology**.”

Commentary was provided by **Prof.**

**Michael Osterholm, PhD, MPH**, Director, Center for Infectious Disease Research & Policy (CIDRAP); Professor, Division of Environmental Health Sciences, School of Public Health; and

**Adjunct Professor, Medical School; and Prof. Bill McGovern, JD**, Law School, University of Minnesota.

Prof. Endy argued that all life and all human civilizations depend on biology—from the oxygen in the air that we breathe, to the plants or animals that we eat, to the fuels that keep us warm and provide power for our houses, industries, and vehicles, to our medicines and clothes. He explained that 35 years ago, scientists first learned how to intentionally and directly manipulate DNA, the genetic material encoding life, using crude tools to construct relatively simple genetic programs. He discussed the much more powerful tools that are currently being developed at a rapid rate in order to help make biology easier to engineer via a new field of research known as Synthetic Biology.

**Prof. Drew Endy, PhD**, is an Assistant Professor in the Department of Bioengineering at Stanford University and a co-founder and President of the BioBricks Foundation (BBF). From 1998 through 2001 he helped to start the Molecular Sciences Institute, an independent not-for-profit biological research lab in Berkeley, CA.

The 2009-10 Lecture Series on Law, Health & the Life Sciences will focus on “**Biobanking: How the Internet and Computer Capacity Are Changing Policy Questions and Answers in Biomedicine**.” All lectures begin at 11:30 a.m. and conclude at 1:00 p.m. These events are free and open to the public.

Videos from all of our lectures are available at [www.lifesci.consortium.umn.edu/video](http://www.lifesci.consortium.umn.edu/video).

# Deinard Memorial Lecture Series on Law & Medicine

The Joint Degree Program and the Center for Bioethics launched the Deinard Memorial Lecture Series on Law & Medicine in the Spring of 2004. This annual lecture series is supported by generous donations from the family of Amos S. Deinard, Sr. (1898-1985) and the law firm of Leonard Street and Deinard in honor of Amos Deinard, Sr. and his brother, Benedict S. Deinard? (1899-1969). The Deinard brothers were founding partners of the Minneapolis-based law firm of Leonard, Street and Deinard. Both attended the University of Minnesota

Law School and Harvard Law School. Amos Deinard was a distinguished attorney widely known for his persistent work to eliminate discrimination in hiring. Appointed to the Minneapolis Fair Employment Practices Commission in 1945 by Mayor Hubert H. Humphrey, he served on the Commission for 17 years, 15 of them as chairman. Benedict Deinard was a successful trial lawyer, an Adjunct Professor of Law at the University of Minnesota, a Deputy Attorney General in the U.S. Department of Justice during World War II, and one of 4 civilians asked to participate in the Nuremberg war crimes trials.



**Prof. M. Gregg Bloche, MD, JD** (Georgetown University), presented the 2008-09 Deinard Memorial Lecture on **“The Emergent Logic of Health Reform.”**

In his lecture Prof. Bloche argued that the American health care system is on a path to ruin. Health spending has become exorbitant and the number of uninsured Americans is approaching 50 million. Can law help to divert our country from this path? There are reasons for deep skepticism. Law governs the provision and financing of medical care in a fragmented and incoherent fashion. Commentators bemoan this chaos. Prof. Bloche argued that pessimism about health law’s prospects is unjustified. The law of health care provision is best understood as an emergent system. Its contradictions and dysfunctions are not the fault of some failed master designer. By quitting the quest for a single, master design, we can better focus our efforts on emergent possibilities for legal and policy change. Prof. Bloche concluded his lecture by suggesting emergent approaches to the most urgent challenges in health care policy and law – the crises of access, value, and cost. Commentators were **Prof. Larry Jacobs, PhD**, Hubert H. Humphrey Institute of Public Affairs, and **Prof. Stephen Parente, PhD**, Carlson School of Management, University of Minnesota.

Dr. M. Gregg Bloche is Professor of Law at Georgetown University, Adjunct Professor at Johns Hopkins University’s Bloomberg School of Public Health, and Visiting Fellow at The Brookings Institution and the Harvard Program on Ethics and Health. He received a Guggenheim Fellowship for 2005-06 to examine the roles of medicine in the public sphere.

The Deinard Memorial Lecture provided 1.5 credits of continuing legal education (CLE) and 1.5 AMA PRA Category 1 Credit(s) (CME) for physicians and health care providers. Further information and video of all the Deinard Memorial Lectures is available at [www.lifesci.consortium.umn.edu/conferences/m\\_gregg\\_bloche\\_2009](http://www.lifesci.consortium.umn.edu/conferences/m_gregg_bloche_2009).



Prof. Stephen Parente, PhD, provides commentary for the 2009 Deinard Memorial Lecture in Law & Medicine.



Prof. Lawrence Jacobs, PhD, comments on the 2009 Deinard Memorial Lecture on Law & Medicine.

The 2009-10 Deinard Memorial Lecture on Law & Medicine will feature **Prof. Dorothy Roberts, JD** (Northwestern University Law School). Prof. Dorothy Roberts is the Kirkland & Ellis Professor; Professor, Department of African-American Studies and Sociology; and Faculty Fellow, Institute for Policy Research, Northwestern University. Prof. Roberts will be speaking on **“What’s Wrong with Race-Based Medicine?”** February 3, 2010 from 11:30am-1:00pm, Theater, Coffman Memorial Union. Watch our website for details at [www.lifesci.consortium.umn.edu](http://www.lifesci.consortium.umn.edu).



Front row from L to R: Prof. Susan M. Wolf, JD; Prof. Lawrence Jacobs, PhD; JDF Advisory Board Member Byron Stams, JD; Prof. M. Gregg Bloche, JD, MD (Georgetown University); Morris Sherman, LLB; and Miriam Kelen.

Back row: Prof. Stephen Parente, PhD; and Prof. Amos Deinard, Jr., MD, MPH.



Left: Amos S. Deinard Sr. (1898-1985). Right: Benedict S. Deinard (1899-1969).



## Visiting Consortium Professor

Thanks to funding from the President's Interdisciplinary Academic Initiative in support of the Consortium, we are proud to offer a Visiting Consortium Professorship. **2008-09 Visiting Consortium Professor David L. Faigman, JD** (UC, Hastings College of the Law), delivered a public lecture on April 3, 2009 on "**Science in the Supreme Court: Hypotheses & Hypocrisy in Constitutional Decision Making.**"

Prof. Faigman's lecture considered why it seems that judges and constitutional scholars appear so uninterested in the scientific premises that underlie their constitutional judgments. He argued that the answer appears to involve a number of factors, including an overwhelming lack of training in science and its methods (particularly statistics), a fetishistic attachment to the normative, historical, and philosophical underpinnings of constitutional doctrine, and an intense fidelity to a jurisprudence of continuity, which rejects the promise of progress inherent in science. He also explored what this profound lack of scientific curiosity and understanding has meant for constitutional doctrine. Using specific examples, Prof. Faigman discussed the empirical hypocrisy that pervades much of constitutional law, ranging from *Abrams v. United*

*States to Young v. American Mini Theatres*. He concluded his lecture by asking, "What is to be done?" Is it possible, and is it desirable, to have a scientifically rational and empirically sophisticated constitutional jurisprudence?

**Prof. David L. Faigman, JD**, is the John F. Digardi Distinguished Professor of Law at the University of California, Hastings College of the Law in San Francisco, and Director of the UCSF/Hastings Consortium on Law, Science and Health Policy.

Commentators were **Prof. Susanna Blumenthal, PhD, JD**, Associate Professor of Law and History, Law School, University of Minnesota and **Prof. Eugene Borgida, PhD**, Professor of Psychology and Law, University of Minnesota.

To learn more and to view Prof. Faigman's lecture, visit [www.lifesci.consortium.umn.edu/conferences/david\\_faigman\\_2009](http://www.lifesci.consortium.umn.edu/conferences/david_faigman_2009).



**PROF. DAVID L. FAIGMAN, JD**  
(UC, Hastings College of the Law)



**Prof. Susanna Blumenthal, JD, PhD,**  
comments on Prof. Faigman's lecture.



**Prof. Eugene Borgida, PhD,** offers  
commentary on the Visiting Consortium  
Professor lecture.



# Recent Publications

**In 2008-09, the Consortium published widely. Select Publications Resulting from Grants include:**

## **"Managing Incidental Findings in Human Subjects Research"**

Our NIH-funded grant resulted in a major symposium issue in the *Journal of Law, Medicine & Ethics*, including:

- Wolf SM, Paradise J, Nelson CA, Kahn JP, Lawrenz F, eds. Symposium: Incidental Findings In Human Subjects Research: From Imaging to Genomics. *Journal of Law, Medicine & Ethics*. 2008;36(2):2-383.
- Wolf SM. Introduction: The Challenge of Incidental Findings. *Journal of Law, Medicine & Ethics*. 2008;36(2):216-18.
- Wolf SM et al. Managing Incidental Findings in Human Subjects Research: Analysis and Recommendations. *Journal of Law, Medicine & Ethics*. 2008;36(2):219-48.
- Lawrenz F, Sobotka S. Empirical Analysis of Current Approaches to Incidental Findings. *Journal of Law, Medicine & Ethics*. 2008;36(2):249-55.
- Richardson HS. Incidental Findings and Ancillary-Care Obligations. *Journal of Law, Medicine & Ethics*. 2008;36(2):256-70.
- Miller FG, Mello MM, Joffe S. Incidental Findings in Human Subjects Research: What Do Investigators Owe Research Participants? *Journal of Law, Medicine & Ethics*. 2008;36(2):271-79.
- Cho MK. Understanding Incidental Findings in the Context of Genetics and Genomics. *Journal of Law, Medicine & Ethics*. 2008;36(2):280-85.
- Clayton EW. Incidental Findings in Genetics Research Using Archived DNA. *Journal of Law, Medicine & Ethics*. 2008;36(2):286-91.
- Van Ness B. Genomic Research and Incidental Findings. *Journal of Law, Medicine & Ethics*. 2008;36(2):292-97.
- Illes J, Chin VN. Bridging Philosophical and Practical Implications of Incidental Findings in Brain Research. *Journal of Law, Medicine & Ethics*. 2008;36(2):298-304.
- Royal JM, Peterson BS. The Risks and Benefits of Searching for Incidental Findings in MRI Research Scans. *Journal of Law, Medicine & Ethics*. 2008;36(2):305-14.
- Nelson CA. Incidental Findings in Magnetic Resonance Imaging (MRI) Brain Research. *Journal of Law, Medicine & Ethics*. 2008;36(2):315-19.
- Siddiki H et al. Incidental Findings in CT Colonography: Literature Review and Survey of Current Research Practice. *Journal of Law, Medicine & Ethics*. 2008;36(2):320-31.
- Wilfond BS, Carpenter KJ. Incidental Findings in Pediatric Research. *Journal of Law, Medicine & Ethics*. 2008;36(2):332-40.

- Parker LS. The Future of Incidental Findings: Should They Be Viewed As Benefits? *Journal of Law, Medicine & Ethics*. 2008;36(2):341-51.
- Keane MA. Institutional Review Board Approaches to the Incidental Findings Problem. *Journal of Law, Medicine & Ethics*. 2008;36(2):352-55.
- Milstein AC. Research Malpractice and the Issue of Incidental Findings. *Journal of Law, Medicine & Ethics*. 2008;36(2):356-60.
- Wolf SM, Paradise J, Caga-anan C. The Law of Incidental Findings in Human Subjects Research: Establishing Researchers' Duties. *Journal of Law, Medicine & Ethics*. 2008;36(2):361-83.

## **"NIRT: Evaluating Oversight Models for Active Nanostructures and Nanosystems: Learning from Past Technologies in a Societal Context"**

Investigators on our NSF-funded grant published articles, including:

- Paradise J, Wolf SM, Ramachandran G, Kokkoli E, Hall R, Kuzma J. Developing Oversight Frameworks for Nanobiotechnology. *Minnesota Journal of Law, Science & Technology*. 2008;9(1):187-203.
- Paradise J, Diliberto GM, Tisdale AW, Kokkoli E. Exploring Emerging Nanobiotechnology Drugs and Medical Devices. *Food and Drug Law Journal*. 2008;63(2):407-20.
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- J. Kuzma J, Besley JC. Ethics of Risk Analysis and Regulatory Review: From Bio-to Nanotechnology. *Nanoethics*. 2008;2:149-162.
- Kuzma J, Paradise J, Ramachandran G, Kim J, Kokotovitch A, Wolf SM. An Integrated Approach to Oversight Assessment for Emerging Technologies. *Risk Analysis*. 2008;28(5):1197-1219.
- Hall R. FDA Regulation of Nano Drugs, in *Nanotechnology and FDA-Regulated Products: The Essential Guide* (Food and Drug Law Institute, 2009).
- Hall R. FDA Regulation of Nano Devices, in *Nanotechnology and FDA-Regulated Products: The Essential Guide* (Food and Drug Law Institute, 2009).
- Choi J, Ramachandran G, Kandlikar M. The Impact of Toxicity Testing Costs on Nanomaterial Regulation. *Environmental Science & Technology*. 2009;43(9):3030-34.

A project symposium will appear in the *Journal of Law, Medicine & Ethics* (Winter 2009) on “Developing Oversight Approaches to Nanobiotechnology: The Lessons of History.” Symposium guest editors are Susan M. Wolf, JD, Gurumurthy Ramachandran, PhD, Jennifer Kuzma, PhD, and Jordan Paradise, JD.

## Table of Contents

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## I. Case Studies of Oversight Systems

- Kuzma J, Najmaie P, Larson J. Evaluating Oversight Systems for Emerging Technologies: A Case Study of Genetically Engineered Organisms.
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- Paradise J, Tisdale AW, Hall R, Kakkoli E. Evaluating Oversight of Human Drugs and Medical Devices: A Case Study of the FDA and Implications for Nanobiotechnology.
- Frankel MS. Commentary: Public Outreach by the FDA.
- Foote SB. Commentary on Evaluating Oversight of Human Drugs and Medical Devices.
- Choi JY, Ramachandran G. Review of the OSHA Framework for Oversight of Occupational Environments.
- Maynard AD. Commentary: Oversight of Engineered Nanomaterials in the Workplace.
- Wolf SM, Gupta R, Kohlhepp P. Gene Therapy Oversight: Lessons for Nanobiotechnology.
- Kahn JP. Commentary: Who's Afraid of the RAC? Lessons from the Oversight of Controversial Science.

## II. Comparing Across Case Studies

Paradise J, Wolf SM, Kuzma J, Kuzhabekova A, Tisdale AW, Kakkoli E. Developing U.S. Oversight Strategies for Nanobiotechnology: Learning from Past Oversight Experiences.

## III. Cross-Cutting Ideas

- Kimbrell G. Governance of Nanobiotechnology and Nanomaterials: Principles, Regulation, and Renegotiating the Social Contract.
- Marchant G. What Does the History of Technology Regulation Teach Us About Nano Oversight?
- Nelson KC, Andow DA, Banker MJ. Problem Formulation and Option Assessment (PFOA) Linking Governance and Environmental Risk Assessment for Technologies: A Methodology for Problem Analysis of Nanotechnologies and Genetically Engineered Organisms.
- Hogle L. Science, Ethics and the “Problems” of Governing Nanotechnologies.
- Priest SH. Risk Communication for Nanobiotechnology: To Whom, About What, and Why?
- Fauss E, Gorman ME, Swami N. Using Expert Elicitation to Prioritize Resource Allocation for Risk Identification for Nanosilver.
- Yawson R. Regionalism and Africa's Science, Technology, and Innovation Nanofuture.
- Liao N. Combining Instrumental and Contextual Approaches: Nanotechnology and Sustainable Development.

## Minnesota Journal of Law, Science & Technology

In 2008-09, Volume 10, Issue 1 of the *Minnesota Journal of Law, Science & Technology* featured articles from our 2007-08 speakers including:

George J. Annas, JD, MPH (Boston University) on “The Legacy of the Nuremberg Doctors’ Trial to American Bioethics and Human Rights”;

Debra Spar, PhD (formerly of Harvard Business School, now President, Barnard College) on “Building a Better Baby Business”; and

Zach W. Hall, PhD (formerly of the California Institute of Regenerative Medicine (CIRM)) on “Stem Cell Research at the Intersection of Science, Politics, Culture & Law: The California Experience”.

Volume 10, Issue 2 of the *Minnesota Journal of Law, Science & Technology* included articles by prominent scholars, a recent development, and student notes. Selected articles from Vol. 10, no. 2 include:

Stephen Bates (University of Nevada), “Digital Debate? Lessons from the History of Technical Standards”;

April Mara Barton (Villanova University School of Law), “Application of Cascade Theory to Online Systems: A Study of Email and Google Cascades”;

Mark E. A. Danielson (Pushor Mitchell LLP), “Economic Espionage: A Framework for a Workable Solution”; and

Robert P. Greenspoon (Flachsbarth & Greenspoon, LLC), “Is the United States Finally Ready for a Patent Small Claims Court?”

To read all articles published in the *Minnesota Journal of Law, Science & Technology*, visit [www.mjst.umn.edu](http://www.mjst.umn.edu).

The Consortium and Joint Degree Program also publish a range of program materials each year including an electronic newsletter, an Annual Report, program catalogs and brochures, and a variety of conference and promotional materials.

In 2008-09 the Consortium and Joint Degree Program published our 10th Anniversary Report and Timeline which included a history of the Consortium and Joint Degree Program. To download this and other publications, visit [www.lifesci.consortium.umn.edu](http://www.lifesci.consortium.umn.edu).



As we celebrate our 10th Anniversary, our accomplishments have exceeded all expectations. The Joint Degree Program and Consortium now cross all colleges at the University of Minnesota. Currently, the Joint Degree Program offers 23 degree combinations and boasts 37 gifted students for 2009-10. The Consortium has expanded to 18 member centers, including the Center for Bioethics, Stem Cell Institute, Biomedical Genomics Center, Institute on the Environment, and Center for Infectious Disease Research & Policy. We have received grants from the National Institutes of Health (NIH), the National Science Foundation (NSF), The Greenwall Foundation, the Law School's Robina Research Fund for Law, Public Policy & Society, and the John D. and Catherine T.

MacArthur Foundation through the University of California, Santa Barbara. We have published groundbreaking research findings and recommendations. We have successfully launched the *Minnesota Journal of Law, Science & Technology* and continue to rise in the rankings as we publish top scholars writing on law, science, and technology. We have awarded over \$800,000 in intramural grants.



Robert H. Bruininks  
President, University of Minnesota

The Consortium and Joint Degree Program's continued success and future strength depends on increased private investment.



We are grateful for leadership and targeted financial support from the University of Minnesota's President Robert H. Bruininks and Senior Vice President for Academic Affairs and Provost E. Thomas Sullivan. We seek gifts so that we may continue to grow our extraordinary programs.

Gifts allow us to continue to expand our unique programming to promote groundbreaking research and original scholarship in law and the life sciences.

The University of Minnesota has become the leading institution pioneering interdisciplinary training and research on the societal implications of the life sciences. We invite you to participate in our success.

In 2008-09 we received gifts for the *Minnesota Journal of Law, Science & Technology*. We also established a **JDP Student Scholarship Fund** and a **Consortium Fund for Conferences and Lectures**.

We are grateful to JDP Advisory Board member **Margo Struthers, JD**, for providing the founding gift for **JDP Student Scholarship Fund**, and to the Consortium Chair and JDP Director Susan Wolf for creating the **Wolf Scholarship for Joint Degree Program Students**.

For more information, visit [www.giving.umn.edu/giving\\_opps/outright\\_gifts/index.html](http://www.giving.umn.edu/giving_opps/outright_gifts/index.html).

Private contributions are critical to ensure that the Consortium stays at the leading-edge of research and training, and to expand the Joint Degree Program's ability to recruit the best and brightest students to Minnesota.



# Staff



**AUDREY BOYLE**  
Project Manager

The Joint Degree Program and Consortium share staff and offices. Our staff members include:

**Audrey Boyle** is the Project Manager for the Joint Degree Program and Consortium. She is responsible for managing all of the Consortium's and Joint Degree Program's federal and foundation grants and research projects, administering the Consortium's intramural grants, and assisting with the programs' daily financial management, annual budgeting, and events. Audrey's previous work experience has primarily been in health care administration including 13 years in the Hennepin Care System. She attended Western Michigan University and the University of Arizona.



**DAVID HANBURY**  
Program Assistant

**David Hanbury, MFA**, joined the Consortium and Joint Degree Program first as a temporary staff member in February 2009, and then as the Program Assistant in June 2009. Prior to coming to the Consortium David worked as an Executive Assistant with Ameriprise Financial and American Express. He holds a BA from the University of Massachusetts and an MFA from Brown University. He is a native of Boston.

**Sue Minor** is the Consortium's Information Technology Professional. She began working with the Consortium in August 2007. Sue is also sign language interpreter and holds a degree in Anthropology from New Mexico State University. Sue's primary duties are to update and support the websites for the Consortium, Joint Degree Program, and the *Minnesota Journal of Law, Science & Technology*.



**SUE MINOR**  
Information Technology Professional

**Carol Rachac, MA**, is the Associate Program Director for the Consortium and the Joint Degree Program. She has worked in academic administration at the University of Minnesota since 1988, including 8 years in the Department of Sociology and 10 years in the Carlson School of Management. Carol serves on the Disabilities Issues Senate Sub-committee and has been active with various task teams and process improvement initiatives. She earned a BA in Political Science and an MA in Higher Education Administration from the University of Minnesota. Her duties include management and administration, coordination of admissions, student advising, development, and grants management.

**Monica Wittstock** is the Program Associate and Communications Specialist for the Consortium and Joint Degree Program and the Executive Administrator of the *Minnesota Journal of Law, Science & Technology*. Her duties include managing print publications and communications, e-communications, production of the *Minnesota Journal of Law, Science & Technology*, and the websites for the Consortium, Joint Degree Program, and the *Minnesota Journal of Law, Science & Technology*.



**CAROL RACHAC**  
Associate Program Director

The Joint Degree Program and Consortium are indebted to the following Research Assistants in 2008-09: **Leili Fatehi** (Law), **Lindsey Hopper** (Law), **Crystal Liu** (Law), **Eva Stensvad** (Law), and **Amber Thomas** (Law).



**MONICA WITTSTOCK**  
Communications Specialist



# Support & Acknowledgements



U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES  
National Institutes of Health



National Science Foundation  
WHERE DISCOVERIES BEGIN

## Grants

### **“Managing Incidental Findings in Human Subjects Research”**

Sponsor: National Institutes of Health (NIH)/National Human Genome Research Institute (NHGRI) (2005-07, with a major symposium in 2008 in the *Journal of Law, Medicine & Ethics*)

Award #: 1 R01 HG003178-01A1

Principal Investigator: Prof. Susan M. Wolf, JD

Co-Investigators: Adjunct Assoc. Prof. Jordan Paradise, JD;

Prof. Jeffrey Kahn, PhD, MPH; Prof. Frances Lawrenz, PhD; and

Prof. Charles Nelson, PhD.

<http://www.nih.gov/>

### **“NIRT: Evaluating Oversight Models for Active Nanostructures and Nanosystems: Learning from Past Technologies in a Societal Context”**

Sponsor: National Science Foundation (NSF) (2006-10)

Award # SES 0608791

Susan M. Wolf, JD, Principal Investigator

Efrosini Kokkili, PhD, Co-Principal Investigator

Jennifer Kuzma, PhD, Co-Principal Investigator

Jordan Paradise, JD, Co-Principal Investigator

Gurumurthy Ramachandran, PhD, Co-Principal Investigator

[www.nsf.gov/](http://www.nsf.gov/)

### **“Cutting-Edge Policy Issues in Reprogonomics: Revamping the Law, Ethics & Policy Governing Genomic Biobanks and Assisted Reproductive Technology”**

Sponsor: Robina LaPPS Research Funding (2009-11)

Prof. Susan M. Wolf, JD, Principal Investigator

[www.law.umn.edu/news/robina-grant-12-16-2008.html](http://www.law.umn.edu/news/robina-grant-12-16-2008.html)

### **“How Should Neuroscience Change Law? Lessons from the Impact of Genetics and Emerging Convergence of Genomics and Neuroscience”**

Sponsor: Subaward from the University of California, Santa Barbara (MacArthur Foundation, Law and Neuroscience Project) (2008-09)

Susan M. Wolf, JD, Principal Investigator

[www.macfound.org](http://www.macfound.org)

The Law School's program on **Law, Public Policy & Society (LaPPS)** funded by the **Robina Foundation** granted funds to the Consortium to host the 10<sup>th</sup> Anniversary Conference on **“What's Next in Law, Health & the Life Sciences?”**

**Debating Openness, Access & Accountability.”**

[www.robinafoundation.org/index.php](http://www.robinafoundation.org/index.php)

## 2008-09

The Consortium and Joint Degree Program are also deeply gratified by the funding provided through the **Presidential Interdisciplinary Academic Initiative on Law and Values in Health, Environment & the Life Sciences**. This Initiative is led by **Senior Vice President for Academic Affairs and Provost E. Thomas Sullivan**. We are indebted to all involved in the Initiative, especially:

- President Robert H. Bruininks
- Senior Vice President for Academic Affairs and Provost E. Thomas Sullivan
- John Ziegenhagen, Director, Strategic Projects
- H. Jeanie Taylor, Retired Assistant Vice Provost for Interdisciplinarity

In addition, the **Joint Degree Program and Consortium** are indebted to the following for integral financial and program support:

- Senior Vice President for Academic Affairs and Provost E. Thomas Sullivan
- Senior Vice President Frank Cerra, Academic Health Center
- Dean Gail Dubrow, Graduate School
- Dean Robert Elde, College of Biological Sciences
- Dean John Finnegan, School of Public Health
- Dean Allen Levine, College of Food, Agricultural and Natural Resource Sciences
- Dean David Wippman, Law School

We gratefully acknowledge the following targeted financial support:

- Professor Amos Deinard, Jr., MD, MPH, Miriam Kelen, and the law firm of Leonard Street and Deinard for the Deinard Memorial Lecture Series on Law & Medicine
- The law firm of Fredrikson & Byron for the Harold M. Fredrikson Memorial Scholarship
- The Minnesota Intellectual Property Law Association (MIPLA) for a MIPLA Scholarship for 2008-09
- JDP Advisory Board Member Margo Struthers, JD, for her contribution to the Joint Degree Program Scholarship Fund
- JDP Alumni Robert Goetz, JD, MS for his contribution to the Joint Degree Program Scholarship Fund
- Professor Susan M. Wolf, JD, for creating the Wolf Scholarship for Joint Degree Program students

The *Minnesota Journal of Law, Science & Technology* thanks donors for their contributions. Donors are listed on page 11 of this publication. For more information, visit [www.mjlst.umn.edu](http://www.mjlst.umn.edu).

For more information on support and giving visit  
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# Looking Forward

## 2009-10 & Beyond

In 2008-09 we celebrated a decade of achievement and look forward to the next decade of cutting-edge work. In 2009-10 we will bring top experts in law and the life sciences to the University of Minnesota campus, provide new joint degree options, and continue to publish our original research.



PROF. KENNETH GOODMAN, PhD  
University of Miami



PROF. ANDREA M. BRAVERMAN, PhD  
University of Medicine and  
Dentistry of New Jersey



PROF. ALEXANDER CAPRON, LLB  
USC Gould School of Law



PROF. DOROTHY ROBERTS, JD  
Northwestern University

### Upcoming Events: 2009-10 & Beyond

#### 2009-10 Lecture Series on Law, Health & the Life Sciences

The Consortium and Joint Degree Program will present 3 lectures in this series in 2009-10 on "Biobanking: How the Internet and Computer Capacity Are Changing Policy Questions and Answers in Biomedicine."

##### "Computers, Patients, and the Health of Populations: Next Steps in Ethics and Informatics"

Prof. Kenneth Goodman, PhD (University of Miami)

Date: Wednesday, October 28, 2009

Time: 11:30am-1:00pm

Location: Mississippi Room, Coffman Memorial Union

##### "How the Internet is Reshaping Assisted Reproduction: From Donor Offspring Registries to Direct-to-Consumer Genetic Testing"

Prof. Andrea M. Braverman, PhD (University of Medicine and Dentistry of New Jersey)

Date: Wednesday, November 18, 2009

Time: 11:30am-1:00pm

Location: Mississippi Room, Coffman Memorial Union

##### "Cutting-Edge Issues in the Structure & Governance of U.S. and International Biobanks"

Prof. Alexander Capron, LLB (USC Gould School of Law)

Wednesday, February 18, 2010

Time: 11:30am-1:00pm

Location: Mississippi Room, Coffman Memorial Union

Watch our website for details.

[www.lifesci.consortium.umn.edu/lectures](http://www.lifesci.consortium.umn.edu/lectures).

#### Deinard Memorial Lecture on Law & Medicine

##### "What's Wrong with Race-Based Medicine?"

Prof. Dorothy Roberts, JD (Northwestern University)

Date: Wednesday, February 3, 2010

Time: 11:30am-1:00pm

Location: Theater, Coffman Memorial Union

Watch our website for details: [www.lifesci.consortium.umn.edu/conferences/dorothy\\_roberts\\_2010](http://www.lifesci.consortium.umn.edu/conferences/dorothy_roberts_2010).

#### Annual Conference

##### "The Challenge of Governing Nanobiotechnology: Reinventing Oversight for the 21<sup>st</sup> Century"

Date: April 15, 2010

Time: 8:00am-4:30pm

Location: Cowles Auditorium

Hubert H. Humphrey Institute

Watch our website for details:

[www.lifesci.consortium.umn.edu/conferences](http://www.lifesci.consortium.umn.edu/conferences).

#### Forthcoming Publications

##### December 2009

Symposium to be published in December 2009 in the *Journal of Law, Medicine & Ethics* on "Developing Oversight Approaches to Nanobiotechnology: The Lessons of History." Guest Editors: Susan M. Wolf, JD, Jennifer Kuzma, PhD, Jordan K. Paradise, JD, and Gurumurthy Ramachandran, PhD.

##### *Minnesota Journal of Law Science & Technology (MJLST)*, Volume 11, issue 1 will publish articles from:

Andrew W. Torrance (University of Kansas), "Gene Concepts, Gene Talk & Gene Patents"; and

Mark A. Corro, David Eagleman (Baylor College of Medicine), Jyotpal Singh (University of Houston), "Why Neuroscience Matters for a Rational Drug Policy."

For more information on *MJLST*, visit [www.mjlst.umn.edu](http://www.mjlst.umn.edu).

#### Consortium Intramural Grants

The Consortium is pleased to offer competitive intramural grants again in November 2009, with awards announced February and March 2010.

More information is available on our website at [www.lifesci.consortium.umn.edu](http://www.lifesci.consortium.umn.edu).

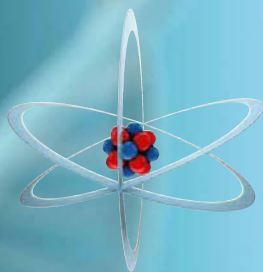
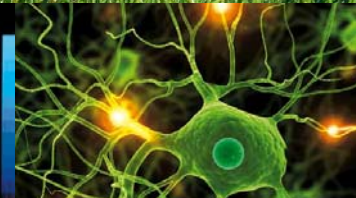




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in Law, Health & the Life Sciences\*

**Consortium on Law and Values**  
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2008-09  
**ANNUAL REPORT**

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