2008-09 HIGHLIGHTS:

- Celebrated 10th Anniversary of the Joint Degree Program in Law, Health & the Life Sciences and Consortium on Law and Values in Health, Environment & the Life Sciences
- 10th 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
- Deinard Memorial Lecture on Law & Medicine presented by Prof. M. Gregg Bloche, JD, MD (Georgetown University)
- Visiting Consortium Professor: David Faigman, JD (UC Hastings College of the Law)
- Awarded over $70,000 in Intramural grants
2008-09 ANNUAL REPORT

Consortium on Law and Values in Health, Environment & the Life Sciences
Joint Degree Program in Law, Health & the Life Sciences
University of Minnesota Law School
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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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Message from the Director and Chair

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

Susan M. Wolf
Update on the Consortium on Law and Values

In 2008-09 the Consortium and Joint Degree celebrated our 10th Anniversary. We are gratified by what we have achieved in our 10th 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 10th Anniversary Gala Dinner with keynote address by Prof. Arthur Caplan, PhD (University of Pennsylvania); our 10th 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;

For more information on ranking, visit 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 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)

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For more information on ranking, visit 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 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.

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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:

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.

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.

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.

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.

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 interdisciplinary 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.

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/.
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](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).

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/).

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

**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).

**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).

**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**
  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/).

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

**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/about/staff/articles/osterholm.html](http://www.cidrap.umn.edu/cidrap/about/staff/articles/osterholm.html).
  For more information on CIDRAP, visit [www.cidrap.umn.edu/](http://www.cidrap.umn.edu/).

**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/).

**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](http://www.ncfpd.umn.edu/index.cfm).
Consortium Members--Selected Faculty

**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/georgiieff/home.html.

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_G.htm.

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_G.htm.

For more information on the Center for Cognitive Sciences, visit 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=toasco01.

To learn more about the Center for Environment & Health Policy, visit www.enhs.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/.
For more information on InStePP, visit www.instepp.umn.edu/people/people.html.

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

Prof. Michael Sadowsky, PhD
Distinguished McKnight University Professor
Co-Director, Microbial 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.

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?f5=olszewskiNeil.

For more information on the Microbial and Plant Genomics Institute, visit 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=dswack.

For more information about the Water Resources Center, visit www.wrc.umn.edu.

**Institute on the Environment (IonE)**

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.

To learn more about the Institute on the Environment, visit www.environment.umn.edu.

**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.

To learn more about Healthy Foods, Healthy Lives Institute, visit www.hfhl.umn.edu.

**Center for Spirituality & Healing**

Prof. Mary Jo Kreitzer, PhD, RN, FAAN
Director, Center for Spirituality & Healing
For more information on Prof. Kreitzer, visit www.csh.umn.edu/facultystaff/mjkreitzer/home.html.

For more information on the Center for Spirituality & Healing, visit www.csh.umn.edu/.
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’ BRACAnalysis 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

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.

More information about the University’s commitment to interdisciplinary research and studies can be found at www.interdisciplinary.umn.edu/index.
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), 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. 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 ground 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), the Law School, Joint Degree Program, Advisory Board members, and subscriptions.

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.


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

The website for the at 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.
**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.

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**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.

**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, Nanocopoeia. 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 Reprogenomics: 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).


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.

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:
- “Paths 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).
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 with new features.

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.
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)
  - 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/](http://www.hhh.umn.edu/academics/gradprograms/ms/)
  - 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 (NRSM)**:
  - [www.nrsm.umn.edu/](http://www.nrsm.umn.edu/)
  - NRSM Faculty: [www.nrsm.umn.edu/people/index.html](http://www.nrsm.umn.edu/people/index.html)
  - JD with an MS or PhD in Natural Resources Science and Management

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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.
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 Galaitsis, 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 Guri, 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 Bohman, 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/endowed/.
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.


**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

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 Patenable?”;
- Alexandra Klass, 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, LLM, 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 MR3 Medical LLC, on “Who Controls Health Care Decisions: Personal Choice v. Government Regulation.”
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 Hallofend, JD, Founder, Halleland Lewis Nilan & Johnson; Founder, Halleland Health Consulting; General Counsel, Health Care Compliance Associate (HCCE) 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.
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 confer 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)
Prof. Ruth Okediji, LLB, LLM, SJD (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 Eyler, 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.

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.
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 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 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  
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 & Deinard.

**Laurel Kilgour**  
JD/MS in Molecular, Cellular Development Biology & Genetics  
Laura 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 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, Thuente, Skaar, and Christensen.

**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 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.
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 Stoel Rives, LLP focusing her work on renewable energy.

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 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 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 School’s 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
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.

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.

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.

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.

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.
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.

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/.

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.

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, 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/.

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/.

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 LLM 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, 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/.

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.

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

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.

For more information about our Governing Committee members, visit 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.

The 2008-09 Advisory Board includes:

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.

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.

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.
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.

Keith Halleland, JD, is a founder and shareholder of Halleland Lewis Nilan & Johnson, where he chairs the health law practice, and is a founder of the firm’s affiliated consulting company, Halleland 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. Halleland, visit www.jointdegree.umn.edu/adv_bd#halleland.

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.

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.

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.

Vanessa Laird, MA, JD, is currently General Counsel, Enterprise Services, United HealthGroup. 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.

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.

David R. Melloh, JD, chairs Lindquist & Vennum’s Health Law practice group. He earned an 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.
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.

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.

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.

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.

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.

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, Thuente, 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.

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.
Byron E. Starns, JD, is a shareholder and partner at the firm of Leonard Street and Deinard, 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.

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.

Margo S. Struthers, JD, Oppenheimer Wolff & 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.

Robert L. Thompson, JD, LLM, 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 LLM 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.

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.

For more information on the Joint Degree Program, visit www.jointdegree.umn.edu.
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.
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 10th 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).
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).

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
- “Legally Protected Autonomy Rights?” 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.

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

Prof. 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 Candeub, JD (Michigan State University), with University of Minnesota Law School Chief of Staff Nora Klaphake, JD, at the 10th Anniversary Gala Dinner.

Audience members listen at the 10th Anniversary Conference.

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

Joint Degree Program
in Law, Health & the Life Sciences

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

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.
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, 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 School of Law, presented “The Paradigm Shift of Synthetic Biology: Tensions between Innovation and Security.” 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 McGevern, 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.

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.
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.

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.
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).
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:


**“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:

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.

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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.

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 the *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.
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, 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 Amerprise 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*.

**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*.

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).
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Grants

“Managing Incidental Findings in Human Subjects Research”
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”
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Susan M. Wolf, JD, Principal Investigator
Efrosini Kokkoli, 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/

“Cutting-Edge Policy Issues in Reprogenomics: 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

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

The Law School’s program on Law, Public Policy & Society (LaPPS) funded by the Robina Foundation granted funds to the Consortium to host the 10th Anniversary Conference on “What’s Next in Law, Health & the Life Sciences? Debating Openness, Access & Accountability.”
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

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

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- 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.

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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.

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

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“Cuttin-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.

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.

Annual Conference
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.

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. Correro , 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.

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.