



2010-11

ANNUAL REPORT



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

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

2010-11 HIGHLIGHTS:

- Consortium hosted NHGRI, NIH-supported conference on “Should We Return Individual Research Results and Incidental Findings from Genomic Biobanks & Archives?” in Bethesda, MD
- Consortium renewed as a University-wide center
- Consortium preparing symposia in *Genetics in Medicine* and *Minnesota Journal of Law, Science & Technology* on managing incidental findings and research results in genomic biobanks and archives
- Consortium continued work on ARRA Challenge Grant from NHGRI, NIH on building research ethics and oversight of nanodiagnostics and nanotherapeutics
- Publication of symposium in *Journal of Nanoparticle Research*
- Prof. Susan Wolf testified before Presidential Commission on Bioethical Issues
- Deinard Memorial Lecture on Law & Medicine presented by Prof. R Alta Charo, JD (University of Wisconsin, Madison and U.S. Food and Drug Administration)
- Lecture Series on “From Climate Change to the Gulf Oil Spill: Law and Science in Times of Crisis”
- *MJLST* rose in the Washington and Lee rankings and is a top-10 journal in all categories for 2010
- Joint Degree Program enrolled 5 new students for a total of 34
- Joint Degree Program graduated 6 students for a total of 39 alumni
- Consortium awarded faculty and students over \$98,000 in intramural grants

Attendees at the Consortium's May 19 conference in Bethesda, MD on "Should We Return Individual Research Results and Incidental Findings from Genomic Biobanks & Archives?"



Pamela S. Krop, JD (St. Jude Medical); Prof. R. Alta Charo, JD (University of Wisconsin and U.S. Food and Drug Administration); and Prof. Shaun Kennedy, BSE-ChE (University of Minnesota) speak on a panel at the 2010-11 Deindard Memorial Lecture on Law & Medicine.



Inside cover images include:

Above: JDP student Joseph Dammel, JD, MS candidate in Science, Technology & Environmental Policy) and Vice Provost and Dean Henning Schroeder, PhD (University of Minnesota) at the Fall 2010 JDP Advisory Board Reception.

Right: Leslie G. Biesecker, PhD (National Human Genome Research Institute, National Institutes of Health) and Kathy Hudson, PhD (National Institutes of Health) at the May 19 conference on "Should We Return Individual Research Results and Incidental Findings from Genomic Biobanks & Archives?"

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

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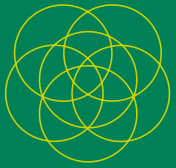
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Joint Degree Program in Law, Health & the Life Sciences™

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

Table of Contents

- 2 Message from the Director and Chair

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

- 3 Update on the Consortium on Law and Values
5 Consortium Members
8 Consortium Members—Faculty Directors
10 Executive Committee
11 Presidential Interdisciplinary Initiative & University-Wide Center
12 New Grants & Research
14 Consortium Intramural Grants
15 *Minnesota Journal of Law, Science & Technology*

Joint Degree Program in Law, Health & the Life Sciences

- 16 Update on the Joint Degree Program
17 Joint Degree Program Options & Faculty
18 Student Recruitment & Scholarships
19 Student Honors & Achievements
20 Joint Degree Program Proseminar
22 Concentration in Health Law & Bioethics
24 Joint Degree Program Events
25 2010-11 Joint Degree Program Graduates
26 Joint Degree Program Alumni & Careers
27 Joint Degree Program Faculty & Governing Committee
30 Joint Degree Program Advisory Board

2010-11 Events & Co-Sponsored Activities

- 35 Annual Conference
38 Lecture Series on Law, Health & the Life Sciences
39 Deinard Memorial Lecture Series on Law & Medicine
40 Recent Publications
42 Giving—How You Can Help

Staff & Support

- 43 Acknowledgements of Support
44 Staff
45 Looking Forward: 2011-12

“Our Consortium on Law and Values in Health, Environment & the Life Sciences is one of the University of Minnesota’s most distinguished interdisciplinary programs. The Consortium’s ability to bridge law, values, medicine, science, and policy is renowned and respected around the world. We are pleased that the Consortium continues to bring such remarkable faculty and students together to work, here on our campus, on some of the most pressing and profound issues of our times.”

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

Message from the Director and Chair



PROFESSOR SUSAN M. WOLF, JD

McKnight Presidential Professor of Law,
Medicine & Public Policy

Faegre & Benson Professor of Law

Professor of Medicine

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

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

Dear Colleagues:

The **Consortium on Law and Values in Health, Environment & the Life Sciences** and the **Joint Degree Program in Law, Health & the Life Sciences** are proud to present our 2010-11 Annual Report. In this Annual Report we summarize our recent accomplishments, and offer a glimpse of our plans for the upcoming year, including a major conference resulting from our NIH-supported work on “**Nanodiagnostics and Nanotherapeutics: Building Research Ethics & Oversight**” on September 26, 2011. We give thanks to the many scholars, students, leaders, and funders who have enabled us to accomplish so much.

In 2010-11 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** reached new heights. We continued our work on a renewal grant funded by the National Genome Research Institute, National Institutes of Health (NHGRI, NIH) on “**Managing Incidental Findings and Research Results in Genomic Biobanks and Archives**,” which resulted in a groundbreaking, standing-room-only conference on “**Should We Return Individual Research Results and Incidental Findings from Genomic Biobanks & Archives?**” on May 19, 2011, in Bethesda, MD. This work will result in two symposia to be published in *Genetics in Medicine* and the *Minnesota Journal of Law, Science & Technology*. We also continued work on our NHGRI, NIH project on “**Nanodiagnostics and Nanotherapeutics: Building Research Ethics & Oversight**,” an American Recovery and Reinvestment Act of 2009 (ARRA) Challenge Grant, slated to result in a national conference on September 26, 2011, and a subsequent published symposium.

The Consortium published a project symposium in the *Journal of Nanoparticle Research* (April 2011) on “**Governance of Nanobiotechnology**.” This symposium resulted from our National Science Foundation (NSF)-funded work on “**Evaluating Oversight Models for Active Nanostructures and Nanosystems: Learning from Past Technologies in a Societal Context**.” We have built a top journal, the *Minnesota Journal on Law, Science & Technology*; MJLST is now ranked top-4 to top-9 in each major area in which we publish. 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. In 2010-11 we had 5 new students, 6 graduates, for a total of 39 alumni. *U.S. News and World Report* again ranked the University of Minnesota’s Health Law Program among the top-10 in the nation. In 2010-11 we awarded students and faculty over \$98,000 in intramural funds to catalyze University-wide work on the societal implications of the life sciences, bringing the total amount awarded since 2000 to over \$1,000,000. 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 law, values, and science.

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. In 2010 the **Consortium** was renewed as a University-wide center and remains a **Presidential Interdisciplinary Academic Initiative**.

The **Consortium** and the **Joint Degree Program** are unique in the nation. They have grown into leading 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 years to come!

Appreciatively,

A handwritten signature of Susan M. Wolf in black ink.

Susan M. Wolf

Update on the Consortium on Law and Values

In 2010-11 the Consortium reached new milestones:

Consortium News

- **Prof. Susan M. Wolf, JD**, testified before the Presidential Commission for the Study of Bioethical Issues in February 2011
- **Prof. Hari Osofsky, JD**, was voted President-Elect of the Association for Law, Property & Society (ALPS) in March 2011. She will become President in March 2012
- **Prof. Ralph F. Hall, JD**, testified on medical-device safety before the U.S. House of Representatives Energy & Commerce Committee's Subcommittee on Health in February 2011
- **Prof. Susan M. Wolf, JD**, gave a plenary presentation and workshop presentation at the NIH-sponsored ELSI Congress in April 2011 at the University of North Carolina-Chapel Hill

Grants and Publications

- The Consortium continued work on **"Nanodiagnostics and Nanotherapeutics: Building Research Ethics and Oversight,"** an American Recovery and Reinvestment Act of 2009 (ARRA) Challenge Grant from the National Human Genome Research Institute, National Institutes of Health (NHGRI, NIH)
- The Consortium also continued work on our renewal grant funded by NHGRI, NIH, on **"Managing Incidental Findings and Research Results in Genomic Biobanks and Archives"**
- The Consortium published a groundbreaking symposium in the *Journal of Nanoparticle Research*, which resulted from our work on the National Science Foundation (NSF)-funded grant on **"NIRT: Evaluating Oversight Models for Active Nanostructures and Nanosystems: Learning from Past Technologies in a Societal Context"**

Conferences and Lectures

The Consortium and Joint Degree Program sponsored 5 events in 2010-11, including:

the **Lecture Series on Law, Health & the Life Sciences** on "From Climate Change to the Gulf Oil Spill: Law and Science in Times of Crisis," featuring:

- **Prof. Daniel Farber, JD** (University of California, Berkeley School of Law), on **"Blue Bayou: The BP Deepwater Horizon Blowout and the Social and Environmental Erosion of the Louisiana Coast"**
- **Prof. Daniel Bodansky, JD** (Arizona State University School of Law), on **"The International Climate Change Negotiations: The Road from Copenhagen"**

the 2010-11 **Deinard Memorial Lecture on Law & Medicine**, featuring:

- **Prof. R. Alta Charo, JD** (University of Wisconsin-Madison and the U.S. Food and Drug Administration), on **"New Technologies and Old Statutes: Challenges for 21st Century Food and Medical Product Regulation"**

the Consortium Annual Conference:

- A May 19 conference on **"Should We Return Individual Research Results and Incidental Findings from Genomic Biobanks & Archives?"** presenting analysis and recommendations from our NHGRI, NIH-funded project on **"Managing Incidental Findings and Research Results in Genomic Biobanks and Archives"**

a lecture co-sponsored with the Institute of Human Genetics, a Consortium member center, featuring:

- **Mary Carmichael, Knight Science Journalism Fellow** (Massachusetts Institute of Technology), on **"Scientists and Journalists: Can't We All Just Get Along?"**

New Associate Director

The Consortium welcomed a new Associate Director of Research & Education for 2010-11:

- **Leili Fatehi, JD**, Associate Director of Research & Education, Consortium on Law and Values in Health, Environment & the Life Sciences; Adjunct Associate Professor of Law; and Editor-in-Chief, *Minnesota Journal of Law, Science & Technology*



Prof. Isaac Kohane, MD, PhD (Children's Hospital Boston and Harvard Medical School) addresses the audience at the May 19, 2011 Annual Conference on "Should We Return Individual Research Results and Incidental Findings from Genomic Biobanks & Archives?"

New Research Associates

The Consortium added a Research Associate position in 2010-11:

- **Brittney Crock, JD**, was appointed the Consortium's Research Associate for 2010-11
- **Cortney Jones, JD**, was appointed the Consortium's Research Associate for 2011-12

Minnesota Journal of Law, Science, & Technology (MJSLT)

- *MJSLT* published Volume 12 in 2010-11
- *MJSLT* continues to rise in the ranks. Each year, Washington and Lee University School of Law ranks law journals. In 2010 *MJSLT* was ranked:
 - 4 of 66 in the category of Health, Medicine, Psychology, and Psychiatry
 - 5 of 33 in Science, Technology, and Computing
 - 9 of 65 in Intellectual Property
 - 8 of 54 in Environment, Natural Resources, and Land Use
- *MJSLT* continued to offer open access to its articles, publishing articles online simultaneously with our print publication. For more information, visit www.mjlst.umn.edu

In 2011-12, the Consortium and JDP are presenting 4 events:

- a September 26, 2011 conference on **"Nanodiagnostics and Nanotherapeutics: Building Research Ethics & Oversight"**
- the Deinard Memorial Lecture on Law & Medicine, featuring **Ezekiel J. Emanuel, PhD, MD** (University of Pennsylvania), on "Health Care Reform"
- the Lecture Series on Law, Health & the Life Sciences on "Food Safety: Coping with Domestic & International Challenges," featuring **Prof. Robert Brackett, PhD** (Illinois Institute of Technology), and **Prof. Jørgen Schlundt, PhD** (Technical University of Denmark)

Further details on our 2010-11 accomplishments can be found on the Consortium's website at www.lifesci.consortium.umn.edu



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 almost all colleges at the University of Minnesota. The Consortium coordinates and builds on the strengths of 19 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 interdisciplinary questions that are difficult for any one program to tackle alone. The 19 constituent programs are:



- 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 intercollegiate 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 **BioTechnology Institute (BTI)** provides advanced research, training, and university-industry interaction in biological process technology, a major area of biotechnology research. The Institute is the central University of Minnesota vehicle for coordinated research in the biological, chemical, and engineering aspects of biotechnology and home to the President's Initiative on Biocatalysis. The Institute is directed by Prof. Michael Sadowsky, PhD. www.bti.umn.edu



- The **Institute of Human Genetics (IHG)** 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 co-directed by Profs. Brian Van Ness, PhD, and David Largaespada, PhD. www.med.umn.edu/ihg



- The **Microbial and Plant Genomics Institute (MPGI)** 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 its resulting societal and environmental impact. The Center is led by Prof. Nathan Springer, PhD. www.mpgi.umn.edu



- 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, and is represented in the Consortium by Prof. Slack and Associate Director, Prof. Dan Kaufman, MD, PhD. www.stemcell.umn.edu



- The **Center for Environment & Health Policy (CEHP)** is directed by Prof. William Toscano, Jr., 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. www.sph.umn.edu/enhs



- The **Water Resources Center (WRC)** conducts and funds research and outreach related to water resources in the state of Minnesota. WRC also administers the graduate program in Water Resources Science. 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 Faye Sleeper, MA, College of Food, Agricultural and Natural Resource Sciences. www.wrc.umn.edu

INSTITUTE ON THE ENVIRONMENT



environment.umn.edu



AcademicHealthCenter
UNIVERSITY OF MINNESOTA

CENTER for COGNITIVE SCIENCES



Center for NeuroBehavioral
DEVELOPMENT

- The **Institute on the Environment (IonE)** is directed by Prof. Jonathan Foley, PhD. IonE is discovering solutions to Earth's biggest problems through cutting-edge research, partnerships, and leadership development. The Institute's research addresses today's grand environmental challenges, including the need to provide energy, food and fresh water to the world in sustainable and economically viable ways. Through IonE's fellows program, research initiatives, and leadership courses, the Institute on the Environment brings together the brightest minds from the U of M and beyond.
www.environment.umn.edu
- The **Center for Animal Health & Food Safety (CAHFS)** is directed by Prof. Jeffrey Bender, DVM, MS, Dipl. ACVPM; Associate Director Linda Valeri, MBA; Director of Education Prof. Scott Wells, DVM, PhD, Dipl. ACVPM; and Global Initiative Director Will Hueston, DVM, PhD, Dipl. ACVPM. Profs. Bender, Hueston, and Wells have appointments in the School of Public Health and the College of Veterinary Medicine. The Center and its affiliate, the Global Initiative for Food Systems Leadership (GIFSL), play a leadership role in assuring food safety and security from the farm to the consumer. CAHFS and GIFSL do this regionally, nationally, and internationally through 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**
- The **Center for Bioethics** was led by Prof. Jeffrey Kahn, PhD, MPH, Maas Family Chair in Bioethics until August 2011. The Center's mission is to advance and disseminate knowledge concerning ethical issues in health care and the life sciences. The Center conducts original interdisciplinary research, offering educational programs and courses, fostering public discussion and debate through community outreach activities, and assisting in the formulation of public policy. The Center is currently led by Interim Co-Directors Profs. Debra DeBruin, PhD, and Mary Faith Marshall, PhD. **www.ahc.umn.edu/bioethics**
- The **Center for Cognitive Sciences (CCS)** 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 continues to be 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**
- The **Center for Infectious Disease Research and Policy (CIDRAP)** is directed by Prof. Michael Osterholm, PhD, MPH, Division of Environmental Health Sciences, School of Public Health; Associate Director Jill DeBoer, MPH; and Director of Operations Elaine Collison, MPA. Prof. Osterholm also directs the NIH-supported Center of Excellence for Influenza Research Surveillance within CIDRAP. 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 promoted 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**
- 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. **www.cehd.umn.edu/cnbd**

- The **Center for Spirituality & Healing** celebrated 15 years in 2010 as 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
- The **Healthy Food, Healthy Lives Institute's (HFHL)** 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. HFHL focuses on food safety, prevention of obesity and chronic disease, and food policy. Within these priority areas, a key focus is the integration of agriculture and medicine. The Institute's Director is Prof. Mindy S. Kurzer, PhD. www.hfhl.umn.edu
- The **National Center for Food Protection and Defense (NCFPD)** 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 directed by Prof. Shaun Kennedy, BSE-ChE, College of Veterinary Medicine. www.ncfpd.umn.edu
- The **Center for Science, Technology & Public Policy (CSTPP)** is directed by Senior Fellow Steve Kelley, JD, Humphrey School of Public Affairs. The Center aims to improve people's lives by advancing the application of science and technology to solve public problems. CSTPP explores the increasingly important role that science and technology play in our society and examines their implications for public policy at the international, national and state level. The Center also supports research and teaching in the Humphrey School's MS degree in Science, Technology, and Environmental Policy, which is chaired by Prof. Deborah Swackhamer, PhD, Environmental Health Sciences. www.hhh.umn.edu/centers/stpp
- 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. The Center is directed by Prof. Philip G. Pardey, PhD, Department of Applied Economics. www.instepp.umn.edu
- The **Joint Degree Program in Law, Health & the Life Sciences (JDP)** is led by founding Director, Prof. Susan Wolf, JD, McKnight Presidential Professor of Law, Medicine & Public Policy; Faegre & Benson Professor of Law; and Professor of Medicine; and Professor William Toscano, Jr., PhD, Environmental Health Sciences, School of Public Health and Associate Director, Joint Degree Program. The University of Minnesota's Joint Degree Program is training students to become experts in the legal, ethical, and policy problems posed by health, the life sciences, and the environment in the 21st century. www.jointdegree.umn.edu



For more information on Consortium members, visit
www.lifesci.consortium.umn.edu

Consortium Members—Faculty Directors



Prof. Kenneth Beckman, PhD

Biomedical Genomics Center

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

For more information on the Biomedical Genomics Center visit www.bmgc.umn.edu



Prof. Michael Sadowsky, PhD

Biotechnology Institute (BTI)

Prof. Michael Sadowsky, PhD
Director, The BioTechnology Institute
Professor, Department of Soil, Water and Climate
For more information on Prof. Sadowsky, visit www.bti.umn.edu/faculty/biosadowsky.html

For more information on the Biotechnology Institute, visit www.bti.umn.edu/



Prof. Brian Van Ness, PhD

Institute of Human Genetics (IHG)

Prof. Brian Van Ness, PhD
Co-Director, Institute of Human Genetics
Professor, Department of Genetics, Cell Biology, and Development

For more information on Prof. Van Ness, visit www.cancer.umn.edu/research/profiles/vanness.html

Prof. David Largaespada, PhD
Co-Director, Institute of Human Genetics
Professor, Depts. of Genetics, Cell Biology, and Development and Pediatrics

For more information on Prof. Largaespada, visit www.cancer.umn.edu/research/profiles/largaespada.html

For more information on the Institute of Human Genetics, visit www.med.umn.edu/ihg



Prof. David Largaespada, PhD

Microbial and Plant Genomics Institute (MPGI)

Prof. Nathan Springer, PhD
Director, Microbial and Plant Genomics Institute
Professor, Department of Plant Biology
For more information on Prof. Springer, visit www.cbs.umn.edu/plantbio/faculty/SpringerNathan/

For more information on the Microbial and Plant Genomics Institute, visit www.mpgi.umn.edu



Prof. Nathan Springer, PhD

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 on Prof. Slack, visit www.stemcell.umn.edu/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/faculty/Kaufman_D/home.html

For more information on the Stem Cell Institute, visit www.stemcell.umn.edu



Prof. Jonathan Slack, PhD



Prof. William Toscano, Jr., PhD

Center for Environment & Health Policy (CEHP)

Prof. William Toscano, Jr., PhD
Director, Center for Environment & Health Policy
Professor of Molecular Toxicology
Head, Division of Environmental Health Sciences
Chair, Center for Global Health and Social Responsibility
Associate Director, Joint Degree Program in Law, Health & the Life Sciences

For more information on Prof. Toscano, visit www.sph.umn.edu/facstaff/ourfaculty/faculty/tosca001

To learn more about the Center for Environment & Health Policy, visit www.sph.umn.edu/enhs/



Prof. Deborah Swackhamer, PhD

Water Resources Center (WRC)

Prof. Deborah Swackhamer, PhD
Charles M. Denny Chair in Science, Technology, and Environmental Policy, Hubert H. Humphrey Institute of Public Affairs
Co-Director, Water Resources Center
Professor, Environmental Health Sciences, School of Public Health

For more information on Prof. Swackhamer, visit www.sph.umn.edu/epi/faculty/faculty/dswack

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



Prof. Jonathan Foley, PhD

Institute on the Environment (Ione)

Prof. Jonathan Foley, PhD
Director, Institute on the Environment
McKnight Presidential Chair, Department of Ecology, Evolution and Behavior
For more information on Prof. Foley, visit www.environment.umn.edu/about/ione_bios/jon_foley.html

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



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

Center for Animal Health & Food Safety (CAHFS)

Prof. Jeffrey Bender, DVM, MS, Dipl. ACVPM
Director, Center for Animal Health & Food Safety
Professor, School of Public Health, College of Veterinary Medicine
For more information on Prof. Bender, visit www.cvm.umn.edu/vpm/faculty/jeffbender/

For more information on CAHFS, visit www.cahfs.umn.edu



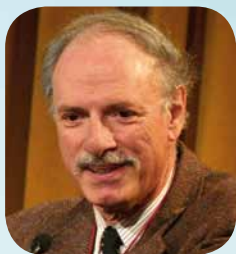
Prof. Jeffrey Kahn, PhD, MPH

Center for Bioethics

Prof. Jeffrey Kahn, PhD, MPH
Maas Family Endowed Chair in Bioethics
Director, Center for Bioethics
Professor of Medicine, School of Public Health, and Philosophy
For more information on Prof. Kahn, visit www.ahc.umn.edu/bioethics/facstaff/kahn_j/

For more information on the Center for Bioethics, visit www.ahc.umn.edu/bioethics

Consortium Members—Faculty Directors



Prof. Apostolos P. Georgopoulos, MD, PhD

Center for Cognitive Sciences (CCS)

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
 For more information on Prof. Georgopoulos, visit
www.brain.umn.edu/bios/georgopoulos.html

For more information on the Center for Cognitive Sciences, visit www.cogsci.umn.edu



Prof. Shaun Kennedy, BSE-ChE

National Center for Food Protection & Defense (NCFPD)

Prof. Shaun Kennedy, BSE-ChE
 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/index.cfm/about/leadership/kennedy/

For more information on NCFPD, visit
www.ncfpd.umn.edu



Prof. Michael Osterholm, PhD, MPH

Center for Infectious Disease Research & Policy (CIDRAP)

Prof. Michael Osterholm, PhD, MPH
 Director, Center for Infectious Disease Research & Policy
 Professor, Environmental Health Sciences, School of Public Health
 Adjunct Professor, Medical School
 Director, NIH-supported Center of Excellence for Influenza Research and Surveillance
 For more information on Prof. Osterholm, visit
www.cidrap.umn.edu/cidrap/center/about/staff/articles/osterholm.html

For more information on CIDRAP, visit
www.cidrap.umn.edu



Senior Fellow Steve Kelley, JD

Center for Science Technology & Public Policy (CSTPP)

Senior Fellow Steve Kelley, JD
 Senior Fellow and Director, Center for Science, Technology & Public Policy
 Hubert H. Humphrey School of Public Affairs
 For more information on Steve Kelley, visit
www.hhh.umn.edu/people/skelley/index.html

For more information on CSTPP, visit
www.hhh.umn.edu/centers/stpp



Prof. Michael Georgieff, MD

Center for Neurobehavioral Development

Prof. Michael Georgieff, MD
 Director and Founder, Center for Neurobehavioral Development
 Professor, Department of Pediatrics, Medical School and Institute of Child Development
 College of Education and Human Development
 For more information on Prof. Georgieff, visit
www.med.umn.edu/peds/neonat/directory/georgieffmichael/

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



Prof. Phil Pardey, PhD

International Science & Technology Practice and Policy Center (InSTePP)

Prof. Phil Pardey, PhD
 Director, International Science & Technology Practice and Policy Center
 Professor of Science and Technology Policy, Department of Applied Economics
 For more information on Prof. Pardey, visit
faculty.apec.umn.edu/ppardey/

For more information on InSTePP, visit
www.instepp.umn.edu



Prof. Mary Jo Kreitzer, PhD, RN, FAAN

Center for Spirituality & Healing

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

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



Prof. Susan M. Wolf, JD

Joint Degree Program in Law, Health & the Life Sciences (JDP)

Prof. Susan M. Wolf, JD
 McKnight Presidential Professor of Law, Medicine & Public Policy
 Faegre & Benson Professor of Law
 Professor of Medicine
 Chair, Consortium on Law and Values in Health, Environment & the Life Sciences
 Director, Joint Degree Program in Law, Health & the Life Sciences
 For more information on Prof. Wolf, visit
www.lifesci.consortium.umn.edu/people/bio.susan.wolf

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



Prof. Mindy Kurzer, PhD

Healthy Foods, Healthy Lives Institute (HFHL)

Prof. Mindy Kurzer, PhD
 Director, Healthy Foods, Healthy Lives Institute
 Professor, Food Science and Nutrition
 For more information on Prof. Kurzer, visit
fscn.cfans.umn.edu/people/faculty/mindykurzer/

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

Executive Committee



Prof. Deborah Swackhamer, PhD
Water Resources Center



Prof. Michael Sadowsky, PhD
BioTechnology Institute



Prof. Michael A. Kilgore, PhD
Forest Resources



Prof. Jeffrey Kahn, PhD, MPH
Center for Bioethics



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

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 and planning in order to take full advantage of the extraordinary expertise in both programs.

Executive Committee members are elected to 3-year staggered renewable terms, with Consortium and Consortium/Joint Degree Program Associate Directors are appointed *ex officio*. Committee members in 2010-11 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.

Prof. Shaun Kennedy, BSE-ChE (National Center for Food Protection and Defense), was elected to a 3-year term beginning 2010. 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 A. Kilgore, PhD (Forest Resources), was elected to a 3-year term beginning in 2009, representing the Joint Degree Program's Governing Committee. He is an Associate Professor and Director of Graduate Studies in the Department of Forest Resources, University of Minnesota.

Prof. Hari Osofsky, JD (Law School; Consortium), was added *ex officio* to the Executive Committee in 2010. Prof. Osofsky is Associate Professor in the Law School, and Associate Director of Law, Geography & Environment in the Consortium on Law and Values in Health, Environment & the Life Sciences.

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

Prof. Deborah Swackhamer, PhD (Water Resources Center; Hubert H. Humphrey School), 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, Co-Director of the Water Resources Center, and the Humphrey School's Charles M. Denny, Jr. Chair in Science, Technology, and Environmental Policy.

William Toscano, Jr., PhD (Environmental Health Sciences; Joint Degree Program), was added *ex officio* to the Executive Committee when he began his appointment as Associate Director of the Joint Degree Program in 2009. Prof. Toscano is Professor and Head of the Division of Environmental Health Sciences and Head of Global Programs, School of Public Health.



Prof. Hari Osofsky, JD
Law School and Consortium on Law and
Values in Health, Environment & the
Life Sciences



Prof. William Toscano, Jr., PhD
Center for Environment and Health Policy
and Joint Degree Program

Presidential Interdisciplinary Initiative & University-Wide Center

The Consortium on Law and Values in Health, Environment & the Life Sciences is one of 6 University-wide centers at the University of Minnesota. Under University policy, University-wide centers must be aligned with the University's strategic priorities, authorized by the President and Senior Vice Presidents, and report to one of the Senior Vice Presidents or his/her designees.

It is the policy of the University of Minnesota to review each University-wide center every five years. In Spring 2010, the Consortium was the first University-wide center to be reviewed under this policy. Four distinguished external reviewers spent two days on campus meeting with a wide range of stakeholders. The External Reviewers enthusiastically recommended continuation of the Consortium as a University-wide center. The Provost's Interdisciplinary Team unanimously endorsed this recommendation. In Fall 2010, Senior Vice President for Academic Affairs and Provost E. Thomas Sullivan approved the continuation of the Consortium as a University-wide center for 5 more years, at which time the Consortium will again be reviewed. The Provost congratulated the Consortium on its remarkable achievements. We are gratified by renewal as a University-wide center and are energized to continue our important work. To learn more about University-wide centers, visit academic.umn.edu/provost/interdisc/cigp.html

The Consortium on Law and Values in Health, Environment & the Life Sciences has a history of being recognized as a Presidential Initiative. In 2000, then-President Mark Yudof established the

Consortium on Law and Values in Health, Environment & the Life Sciences. In 2003, then-President Bruininks designated the Consortium as the Presidential Interdisciplinary Initiative on Law and Values. In 2006 President Bruininks named Senior Vice President of Academic Affairs and Provost E. Thomas Sullivan as head of the Consortium's Initiative.

In 2010-11 Presidential Initiative funding allowed the Consortium to publish the *Minnesota Journal of Law, Science & Technology*; to offer intramural grant funding to further work on the societal implications of the life sciences by Consortium member centers, plus programs and departments participating in the Joint Degree Program; to host our annual conference on "Should We Return Individual Research Results and Incidental Findings from Genomic Biobanks & Archives?" held in Bethesda, MD; and to offer public events such as the Lecture Series on Law, Health & the Life Sciences on the 2010-11 theme "From Climate Change to the Gulf Oil Spill: Law and Science in Times of Crisis."

The Consortium responds to the most challenging legal and ethical questions of the 21st century: questions posed by biomedicine and the life sciences. These are questions that require a new kind of cross-disciplinary work fully marrying legal, ethical, and scientific expertise. The University's commitment to grappling with these emerging and complex questions is part of its land-grant legacy of serving the people of Minnesota, the country, and the world. More information about the University's commitment to interdisciplinary research and studies can be found at www.grad.umn.edu/oii



Prof. Daniel Bodansky, JD (Arizona State University School of Law), speaks on "The International Climate Change Negotiations: The Road from Copenhagen" as part of the 2010-11 Lecture Series on Law, Health & the Life Sciences.

New Grants & Research

We are gratified that the National Human Genome Research Institute (NHGRI) at the National Institutes of Health (NIH) and the National Science Foundation (NSF) Foundation support our research.

The Consortium is leading efforts in the ethical, legal, and social implications of scientific research in the areas of nanobiotechnology, nanomedicine and nanotherapeutics, neuroscience, reprogonomics, and incidental findings in human subjects research. In 2010-11 the Consortium continued work on an American Recovery and Reinvestment Act of 2009 (ARRA) Challenge Grant from the National Human Genome Research Institute, National Institutes of Health (NHGRI, NIH) on **“Nanodiagnostics and Nanotherapeutics: Building Research Ethics and Oversight”** and a renewal grant funded by NHGRI, NIH to continue work on **“Managing Incidental Findings and Research Results in Genomic Biobanks and Archives.”**

A new 5-year grant on **“Disclosing Genomic Incidental Findings in a Cancer Biobank: An ELSI Experiment”** has recently been awarded by the National Cancer Institute (NCI) at NIH. Co-Principal Investigators are Profs. Barbara Koenig, PhD (University of California, San Francisco); Gloria Petersen, PhD (Mayo Clinic College of Medicine); and Susan M. Wolf, JD (University of Minnesota).

In addition, the Consortium routinely supports the grant-seeking efforts of faculty throughout the University of Minnesota and beyond.

“Managing Incidental Findings and Research Results in Genomic Biobanks and Archives”

Principal Investigator: Prof. Susan M. Wolf, JD

Co-Investigators: Profs. Jeffrey Kahn, PhD; Frances Lawrenz, PhD; and Brian Van Ness, PhD

The 2-year, \$911,559 project funded by NHGRI at NIH, has convened a multidisciplinary Working Group of national experts to analyze and generate recommendations on managing incidental findings and individual research results in genomic research using biobanks and archived datasets. In order to understand the genetic contribution to a host of diseases and conditions of great importance to public health, scientists are increasingly assembling large biobanks, archiving many individuals' DNA and health information for scientific reanalysis over time. However, there is no clarity about what individual health information, if any, should be offered to those people generous enough to participate by contributing their DNA and health information.

Kathy Hudson, PhD (NIH), at the May 19 conference on **“Should We Return Individual Research Results and Incidental Findings from Genomic Biobanks & Archives?”**

“Managing Incidental Findings and Research Results in Genomic Biobanks & Archives” project members include:

Working Group:

- Prof. Laura Beskow, MPH, PhD, Duke University
- Michael F. Christman, PhD, Coriell Institute for Medical Research
- Prof. Mildred K. Cho, PhD, Stanford University Medical School
- Prof. Ellen Wright Clayton, MD, JD, Vanderbilt University
- Prof. Robert C. Green, MD, MPH, Brigham and Women's Hospital and Harvard Medical School
- Prof. Ralph Hall, JD, University of Minnesota
- Prof. Judy Illes, PhD, University of British Columbia
- Moira Keane, MA, University of Minnesota
- Prof. Bartha M. Knoppers, PhD, JD, McGill University
- Prof. Isaac Kohane, MD, PhD, Harvard Medical School
- Prof. Barbara Koenig, PhD, University of California, San Francisco
- Prof. Bonnie S. LeRoy, MS, CGC, University of Minnesota
- Karen J. Maschke, PhD, The Hastings Center
- Prof. William McGeveran, JD, University of Minnesota
- Prof. Pilar Ossorio, PhD, JD, University of Wisconsin Law School
- Prof. Lisa Parker, PhD, University of Pittsburgh
- Prof. Gloria M. Petersen, PhD, Mayo Clinic College of Medicine
- Prof. Henry S. Richardson, PhD, Georgetown University
- Prof. Joan A. Scott, MS, CGC, National Coalition for Health Professional Education in Genetics
- Prof. Alan R. Shuldiner, MD, University of Maryland
- President & CEO Sharon F. Terry, MA, Genetic Alliance
- Prof. Benjamin S. Wilfond, MD, University of Washington School of Medicine
- Prof. Wendy Wolf, PhD, Northwestern University

Research Assistants:

- Heather Bemmels, PhD candidate, Educational Psychology
- Christian Krautkramer, MPH, JD candidate, Law School
- Gina Johnson, MA, PhD, Educational Psychology
- Pari McGarraugh, JD candidate, Law School and MPH candidate, School of Public Health
- Michael Schubert, JD candidate, Law School and MS candidate, Molecular, Cellular, Developmental Biology & Genetics
- Rebecca Boxhorn, JD candidate, Law School
- Mao Thao, PhD candidate, Educational Psychology

Some prominent biobanks are giving back none at all. This project has brought together leading experts on bioethics, genomics, biobanking, and law to recommend policies and practices on return of both incidental findings and individual research results that may have importance for the individual contributor.

UNIVERSITY OF MINNESOTA



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

Should We Return Individual Research Results and Incidental Findings from Genomic Biobanks & Archives?

Thursday, May 19, 2011
8:00am-5:00pm
Bethesda North Marriott Hotel
& Conference Center
Bethesda, MD 20852

Supported by NIH, NHGRI grant #2-R01-HG003178
www.lifesci.consortium.umn.edu



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

The Consortium completed our work on this project funded by the National Science Foundation (NSF). This project resulted in groundbreaking publications including symposia in the *Journal of Nanoparticle Research* (2011) and the *Journal of Law, Medicine & Ethics* (2009), plus an April 15, 2010 conference on “**Governing Nanobiotechnology: Reinventing Oversight in the 21st Century.**” This 4-year, \$1.22 million project developed oversight models for nanobiotechnology. The project began September 1, 2006 and involved a national Working Group. Prof. Susan Wolf, JD (Law School) has been the Principal Investigator. Co-Principal Investigators have been: Prof. Jennifer Kuzma, PhD (Humphrey School); Prof. Efrosini Kokkoli, PhD (College of Science & Engineering); Jordan Paradise, JD (Seton Hall Law School); and Prof. Gurumurthy Ramachandran, PhD (School of Public Health).

The Consortium website for our NSF-funded NIRT grant provides information on project working group members, resources including a project bibliography, and project outcomes. For more information, visit www.lifesci.consortium.umn.edu/nirt-public. Project members include:

Working Group:

- Prof. Stephen Ekker, PhD, Mayo Clinic
- Prof. Emerita Susan Foote, JD, University of Minnesota
- Prof. Ralph Hall, JD, University of Minnesota
- Prof. Christy Haynes, PhD, University of Minnesota
- Robert Hoerr, MD, PhD, Nanocopeia, Inc.
- Prof. Terrance Hurley, PhD, University of Minnesota
- Robbin Johnson, Cargill Foundation
- Prof. Jeffrey Kahn, PhD, MPH, University of Minnesota
- Prof. Bradley Karkkainen, JD, University of Minnesota
- George Kimbrell, JD, The International Center for Technology Assessment & the Center for Food Safety
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- Prof. Elizabeth J. Wilson, PhD, University of Minnesota
- Prof. Susan M. Wolf, JD, University of Minnesota

Advisory Board:

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- Judy Crane, PhD, Minnesota Pollution Control Agency
- Michael Gorman, PhD, University of Virginia
- Prof. Linda Hogle, PhD, University of Wisconsin-Madison
- Prof. Milind Kandlikar, PhD, University of British Columbia
- Prof. William Kay, PhD, Northeastern University
- Maria Powell, PhD, Nanotechnology Citizen Engagement

Research Assistants:

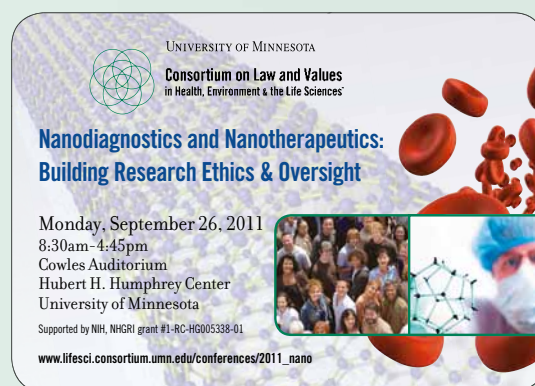
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- Gail M. Diliberto, JD, Law School
- Leili Fatehi, JD, Law School
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- Pouya Najmaie, MS, Hubert H. Humphrey School of Public Affairs
- Alison Tisdale, MS, Chemical Engineering and Materials Science
- Kelly Wilder, MS, Hubert H. Humphrey School of Public Affairs
- Katie Wolf, MS, Hubert H. Humphrey School of Public Affairs

“Nanodiagnostics and Nanotherapeutics: Building Research Ethics and Oversight”

Principal Investigator: Prof. Susan M. Wolf, JD

Co-Investigators: Profs. Jeffrey McCullough, MD; Ralph Hall, JD; and Jeffrey Kahn, PhD, MPH

This \$914,044 project, funded by NHGRI at NIH as part of the American Recovery and Reinvestment Act of 2009 (ARRA), is producing the first systematic and comprehensive recommendations on how to protect human participants in research on nanodiagnostics and nanotherapeutics, including drugs, devices, and gene therapy using nano-vectors. Nanomedicine research in human subjects is at the forefront of new challenges to research ethics and oversight posed by advanced technologies. Nanomedicine research raises significant questions about how to protect human subjects, especially in first-in-human (FIH) trials. But the challenges are even bigger—how to protect researchers, lab workers, the environment, and bystanders who may be exposed to nanomaterials in the course of research.



“Nanodiagnostics and Nanotherapeutics: Building Research Ethics & Oversight” project members include:

Working Group:

- Prof. Steve Campbell, PhD, University of Minnesota
- Prof. Rebecca Dresser, JD, Washington University in St. Louis School of Law
- Prof. Arthur Erdman, PhD, University of Minnesota
- Leili Fatehi, JD, University of Minnesota
- Prof. Mauro Ferrari, PhD, The Methodist Hospital Research Institute Health Science Center at Houston
- Prof. Christy Haynes, PhD, University of Minnesota
- Robert Hoerr, MD, PhD, Nanocopeia, Inc.
- Prof. Linda Hogle, PhD, University of Wisconsin-Madison
- Moira Keane, MA, University of Minnesota
- Prof. George Khushf, PhD, University of South Carolina
- Prof. Nancy M.P. King, JD, Wake Forest University Baptist Medical Center
- Prof. Efrosini Kokkoli, PhD, University of Minnesota
- Vice President for Research and Prof. Frances Lawrenz, PhD, University of Minnesota
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- Prof. Andrew Maynard, PhD, University of Michigan
- Dean and Prof. Martin Philbert, PhD, University of Michigan
- Prof. Gurumurthy Ramachandran, PhD, University of Minnesota
- Prof. Ron Siegel, ScD, University of Minnesota
- Prof. Samuel Wickline, MD, Washington University

Research Assistants:

- Michael Etheridge, MSME & MS candidate, Mechanical & Biomedical Engineering
- Laura Fleege, MPH, Educational Psychology
- Cortney Jones, JD, Law School
- Andrea Mosher, JD, MA candidate, Bioethics
- Mao Thao, PhD candidate, Educational Psychology

Consortium Intramural Grants

2010-11 Intramural Grant Awards

Since 2001 the Consortium has awarded over \$1,000,000 in grants to encourage campus-wide work on the societal implications of problems in health, environment, and the life sciences. In November 2010 we issued a Request for Proposals (RFP) to Consortium members and Joint Degree Program partners and one to University of Minnesota graduate/professional students.

The subcommittee recommending the intramural awards to the full Consortium included Consortium Executive Committee members Profs. Jeffrey Kahn, PhD, MPH; Shaun Kennedy, BSE-ChE; Michael Kilgore, PhD; William Toscano, Jr., PhD; and Susan Wolf, JD.

These grants are made possible by funds received through the Presidential Interdisciplinary Academic 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.



Consortium Intramural Grant recipient Steve Kelley, JD, Director, Center for Science, Technology, and Public Policy.



Consortium Intramural Grant recipient Prof. Brian Van Ness, PhD, Co-Director, Institute of Human Genetics.

RFP for Consortium Members and JDP Partner Programs

In November 2010, 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 2011 or Academic Year 2011-12. Applicants were current University of Minnesota faculty members who (1) direct a program or center represented in the Consortium or (2) serve as the head or Director of Graduate Studies (DGS) of a department or graduate or professional program represented in the Joint Degree Program.

We made 2 awards, totaling \$46,011:

1. Center for Science, Technology, and Public Policy (Steve Kelley, Jennifer Kuzma, Kathryn Quick), **Public/Expert Boundary Work in Environmental Risk Management: The Emerald Ash Borer**—awarded \$27,500; and
2. Institute of Human Genetics (Brian Van Ness, Bonnie LeRoy, Patricia McCarthy Veach), **Every Picture Tells a Story: Effects of Photographic Images on Perceptions and Attitudes about Genetic Conditions**—awarded \$18,511.

RFP for Graduate and Professional Students

The RFP to graduate and professional students is intended to provide a stipend for research and writing and cover research-related expenses in the Summer 2011 or Academic Year 2011-12. We were delighted that the RFP stimulated 33 proposals from students in 24 programs around the University.

Seven awards were made for a total of \$52,259:

1. **Let Them Eat Ducks! Using Agent-based Modeling of the Village Poultry Sector in Thailand to Identify Measures that Control Influenza Transmission While Mitigating Negative Socioeconomic Impacts**—Amanda Beaudoin, PhD candidate, Veterinary Medicine (\$9,018 awarded);
2. **Chinese Green Capitalism and Urban Sustainability: The Cases of Shanghai's Dongtan Eco-City and Tianjin Eco-City**—I-Chun Catherine Chang, PhD candidate, Geography (\$9,420 awarded);
3. **The Ecological Roots of a Religious Crisis: Holy Land Ecology, Religious Belief, and Environmental Policy**—Joshua Mabie, PhD candidate, English (\$6,581 awarded);
4. **Precarious Waters and Questionable Futures: Origins of Scarcity and State-Building in Syria**—Basil Mahayni, PhD candidate, Geography (\$6,875 awarded);
5. **We Get Patients: Understanding the Culture of Patient Recruitment Organizations**—Elita Poplavska, PhD candidate, Pharmaceutical Care and Health Systems (\$6,379 awarded);
6. **Mapping Climate Change Policy in New Zealand's Emissions Trading Scheme**—Phillip Claude-Dziuk Vaughter, PhD candidate, Conservation Biology (\$4,060 awarded); and
7. **Linking Non-Governmental Organizations, Water Law, and Community Values: Lessons from Western Kenya**—Valerie Were, PhD candidate, Natural Resources Science and Management (\$9,926 awarded).

For more information, or to view proposals, visit www.lifesci.consortium.umn.edu/rfps/rfp2009-10

Minnesota Journal of Law, Science & Technology

The *Minnesota Journal of Law, Science & Technology* would like to thank the following individuals, law firms, and organizations for their generous support in 2010-11:

Blue Cross Blue Shield of Minnesota
www.bluecrossmn.com

The Phyllis and Donald Kahn Foundation
www.jointdegree.umn.edu/adv_bd#kahn

Kenneth Liebman
www.jointdegree.umn.edu/people/adv_bd#liebman

Leonard Street and Deinard
www.leonard.com/index.aspx

Oppenheimer Wolff & Donnelly, LLP
www.oppenheimer.com

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

The *Minnesota Journal of Law, Science & Technology* (**MJLST**) is published twice annually and edited by law students and faculty from across the University of Minnesota. **MJLST** is overseen by the Consortium on Law and Values in Health, Environment & the Life Sciences, while maintaining editorial independence. **MJLST** addresses issues in intellectual property, technology policy and innovation, emerging technologies, health law, environmental law, bioethics, and law and science, while maintaining a rigorous grounding in law, values, and policy.

MJLST is made possible by support received from the University of Minnesota's Consortium on Law and Values in Health, Environment & the Life Sciences; Law School; Presidential Interdisciplinary Initiative on Law and Values; and Office of the Senior Vice President for Academic Affairs and Provost. **MJLST** is also supported by private donations, prominent law firms, businesses, and individuals with interest in the intersection of law and science.

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 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. The student staff and board are chosen competitively by the students.

For Volume 12, 2010-11, Adjunct Assoc. Prof. Leili Fatehi was the Faculty Editor-in-Chief. **Prof. Susan Wolf** is the Faculty Executive Editor and **Profs. Jeffrey Kahn, Daniel Philippon, Hari Osofsky, and William McGeeveran** are the Faculty Associate Editors. **Monica Wittstock** is the Executive Administrator. **Eric Taubel** (JD candidate 2011) was the 2010-11 Student Editor-in-Chief.

For Volume 13, 2011-12, the Student Editor-in-Chief is Joseph Dammel (JD, MS candidate in Science, Technology & Environmental Policy) and **Michelle Mercer** (JD candidate 2012) is the Student Executive Editor. A Faculty Editorial Board reviews and edits faculty-written articles.

MJLST publishes all articles online at www.mjlst.umn.edu in full text, simultaneously with hard-copy publication.

MJLST Ranks High Among Law Journals

Each year, Washington and Lee University School of Law ranks law journals. We are pleased that *Minnesota Journal of Law, Science & Technology* continues to rank high among law journals in these categories:

Health, Medicine, Psychology, and Psychiatry:
4 out of 66

Science, Technology & Computing:
5 out of 33

Environment, Natural Resources, and Land Use:
9 out of 65

Intellectual Property:
8 out of 54

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 *Minnesota Journal of Law, Science and Technology* www.mjlst.umn.edu describes how **MJLST** 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 to **MJLST** for review. **MJLST** provides instant online access to full-text articles simultaneously to the print publication.

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Executive Administrator
Monica Wittstock

*Lead Editor

Update on the Joint Degree Program

In 2010-11 the Joint Degree Program:

- Welcomed **5 new students** for a total of 34 in Fall 2010
- Graduated **6 students** for a total of **39 alumni**, including our first JD/MD
- Appointed **Adjunct Associate Prof. Leili Fatehi, JD**, Associate Director of Research & Education for 2010-11
- **Ranked again in the top 10** health law programs by *U.S. News & World Report*
- Had 9 students complete the **Concentration in Health Law & Bioethics**
- Expanded support for JDP students career services to include a **Mock Interview and Resume Review Workshop** with JDP Advisory Board Members
- Restructured the **JDP Advisory Board** to include a Board Membership Committee chaired by Mark Ellinger, JD, PhD, Senior Principal, Fish & Richardson, and a Student Support Committee chaired by Judith Walker, JD, Vice President of Regulatory Affairs and Chief Compliance and Ethics Officer for Blue Cross and Blue Shield of Minnesota
- Co-sponsored with the Center for Bioethics the **Deinard Memorial Lecture Series on Law & Medicine**, featuring **Prof R. Alta Charo, JD** (University of Wisconsin and U.S. Food and Drug Administration) on “**New Technologies and Old Statutes: Challenges for 21st Century Food and Medical Product Regulation**”
- Saw **Prof. Susan M. Wolf, JD**, renewed as Director, Joint Degree Program
- Saw **Prof. William Toscano, Jr., PhD**, renewed for 3-year term as Associate Director of the Joint Degree Program

The Joint Degree Program is unique in the nation and enables students to combine a JD with a PhD, MD, MS, MPH, MHA, or MA 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. We partner with 15 graduate and professional programs on campus and offer the following degree combinations:

- a JD with an MS or PhD in Molecular, Cellular, Developmental Biology & Genetics (MCDB&G)
- a JD with an MS or PhD in Pharmacology
- a JD with an MD in Medicine
- a JD with an MS or PhD in Health Services Research, Policy & Administration



JDP students Keli Holzapfel (JD, PhD candidate in Molecular, Cellular, Developmental Biology & Genetics); Michael Schubert (JD, MS in Molecular, Cellular, Developmental Biology & Genetics); Mollie Gurian (JD, MPH candidate in Public Health Administration & Policy); and Pari McGarraugh (JD, MPH candidate in Public Health Administration & Policy) at the 2011 JDP Graduation Reception.

New Graduates

Mia Hunt, JD, MPH in Public Health Administration & Policy

Jamie Kurtz, JD, MS in Pharmacology

Britta Orr, JD, MPH in Public Health Administration & Policy

Kristin Paulson, JD, MPH in Public Health Administration & Policy

Taylor Pierce, JD, MPH in Public Health Administration & Policy

Lindsey Yock, JD, MD in Medicine

- a JD with an MHA in Healthcare Administration
- a JD with an MPH in Public Health Administration & Policy
- a JD with an MPH in Epidemiology
- a JD with an MPH in Maternal and Child Health
- a JD with an MPH in Community Health Education
- a JD with an MA in Bioethics
- a JD with an MS in Science, Technology & Environmental Policy
- a JD with an MS or PhD in Ecology, Evolution, and Behavior
- a JD with an MS or PhD in Conservation Biology
- a JD with an MS, PhD, or MPH in Environmental Health
- a JD with an MS or PhD in Natural Resources Science and Management

The Joint Degree Program's website www.jointdegree.umn.edu is the best resource for learning about the degree combinations offered by the program. Descriptions of each degree combination, application instructions, and links to our partner programs' websites are popular features, as is the "Careers" page, which profiles our alumni and others with joint degrees to show prospective students the myriad career options available to them.

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 offers 23 degree combinations with over 400 faculty members. 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 of the participating programs listed below:

- Law School: www.law.umn.edu
Faculty: www.law.umn.edu/faculty/index.html
JD combined with one of 23 available degree combinations
- Molecular, Cellular, Developmental Biology & Genetics (MCDBG):
www.mcdbg.umn.edu
Faculty: www.mcdbg.umn.edu/html/fac_abc.html
JD with an MS or PhD in Molecular, Cellular, Developmental Biology & Genetics
- Pharmacology: www.pharmacology.med.umn.edu
Faculty: www.pharmacology.med.umn.edu/faculty.html
JD with an MS or PhD in Pharmacology
- Medical School: www.med.umn.edu
Faculty: www.med.umn.edu/medical-school-faculty/
JD with an MD in Medicine
- Health Services Research, Policy & Administration (HSRPA):
www.sph.umn.edu/programs/hsrpaphd/index.asp
Faculty: www.sph.umn.edu/facstaff/ourfaculty/
JD with an MS or PhD in Health Services Research, Policy & Administration
- Healthcare Administration: www.sph.umn.edu/programs/MHA/
Healthcare Administration Faculty: www.sph.umn.edu/facstaff/ourfaculty
JD with an MHA in Healthcare Administration
- Public Health Administration & Policy (PHAP): www.sph.umn.edu/programs/phap/
Faculty: www.sph.umn.edu/facstaff/ourfaculty
JD with an MPH in Public Health Administration & Policy
- Epidemiology: www.sph.umn.edu/programs/epi/
Faculty: www.sph.umn.edu/facstaff/ourfaculty
JD with an MPH in Epidemiology
- Maternal and Child Health: www.sph.umn.edu/programs/mch/
Faculty: www.sph.umn.edu/facstaff/ourfaculty
JD with an MPH in Maternal and Child Health
- Community Health Education: www.sph.umn.edu/programs/che/
Faculty: www.sph.umn.edu/facstaff/ourfaculty
JD with an MPH in Community Health Education
- Center for Bioethics: www.ahc.umn.edu/bioethics
Faculty: www.ahc.umn.edu/bioethics/facstaff/
JD with an MA in Bioethics
- Science, Technology & Environmental Policy (STEP):
www.hhh.umn.edu/degrees/ms_step/
Faculty: 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
Faculty: www.cbs.umn.edu/eeb/faculty
JD with an MS or PhD in Ecology, Evolution, and Behavior
- Conservation Biology: www.consbio.umn.edu
Faculty: www.consbio.umn.edu/findfaculty.php
JD with an MS or PhD in Conservation Biology
- Environmental Health Sciences (EnHS): www.sph.umn.edu/programs/ehs/
Faculty: www.sph.umn.edu/facstaff/ourfaculty
JD with an MS, PhD, or MPH in Environmental Health Sciences
- Natural Resources Science & Management (NRS): www.nrsm.umn.edu
Faculty: www.nrsm.umn.edu/People/
JD with an MS or PhD in Natural Resources Science and Management

“The Joint Degree Program has provided me with an unparalleled opportunity to combine my interests in public health law and bioethics, and to build relationships with talented students and faculty throughout the University of Minnesota. In particular, Law School faculty members have expressly supported my academic pursuits

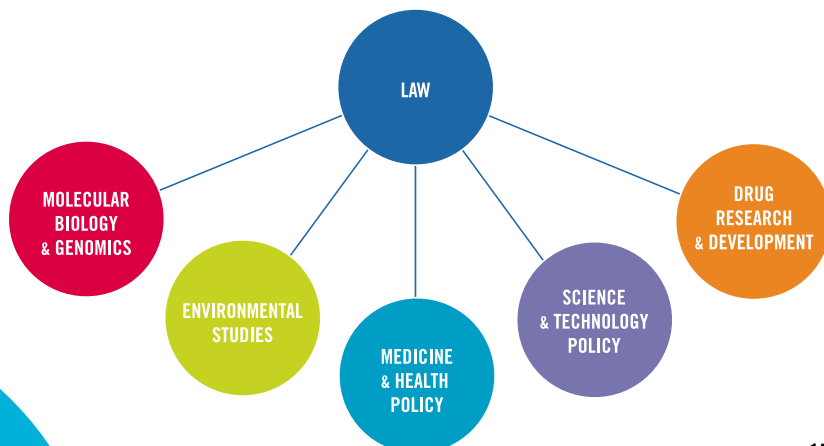
because of the importance an interdisciplinary perspective can bring to the legal arena.”



Rick Weinmeyer, MPhil
JD/MA candidate in Bioethics



Prof. Ralph Hall, JD, and William McGeveran, JD
(University of Minnesota), at the May 19 conference on “Should We Return Individual Research Results and Incidental Findings from Genomic Biobanks & Archives?”





JDP Governing Committee member Prof. Beth Virnig, PhD, with JDP students Elizabeth Karan (JD, MPH candidate in Public Health Administration & Policy), and Mollie Gurian (JD, MPH candidate in Public Health Administration & Policy) at the Fall 2010 JDP Advisory Board Reception.



JDP Advisory Board member Prof. Martin Stillman, JD, MD, with JDP Graduate Lindsey Yock, JD, MD, at the Spring 2011 JDP Graduation Reception.

Student Recruitment & Scholarships

The Joint Degree Program welcomed **5 new students** in Fall 2010 and had **34 students** pursuing the following degree combinations:

- JD/PhD in Molecular, Cellular, Developmental Biology & Genetics (MCDB&G) (Lauren Beach, Rachel Herder, Keli Holzapfel, Sarita Mutha)
- JD/MS in MCDB&G (Michael Schubert)
- JD/MS in Science, Technology & Environmental Policy (Joseph Dammel)
- JD/MS in Natural Resources Science and Management (Catherine Pfender)
- JD/MD (Tchao-Hou Thao, Lindsey Yock)
- JD/MS in Health Services Research, Policy & Administration (Michelle Dawson)
- JD/MPH in Public Health Administration & Policy (Heather Baird, Lindsay Carniak, Anne Dwyer, Brian Grady, Mollie Gurian, Sally Holthouse, Mia Hunt, Elizabeth Karan, Sara Koehring, Catherine London, Alissa Lyon, Pari McGarraugh, Britta Orr, Kristin Paulson, Taylor Pierce, Amber Thomas, Ashley Zborowsky)
- JD/MPH in Epidemiology (Christopher Walker)
- JD/MPH in Community Health Education (Anne McNamara)
- JD/MS in Pharmacology (Jamie Kurtz)
- JD/MS in Plant Biological Sciences (Christopher Pinahs)
- JD/MS in Chemistry (David Hanna)
- JD/MS in Bioethics (Grace Fleming, Richard Weinmeyer)

Three students were awarded a partial **Joint Degree Program Scholarship** in Fall 2010; one student received a one-year **Harold M. Fredrikson Memorial Scholarship**; one student received the 2010-11 **Wolf Scholarship in Law, Health & the Life Science**; and two students received a partial **Law School Scholarship**. One JD/MPH student received a partial **School of Public Health Scholarship**.

Applications to the Joint Degree Program for Fall 2011 again showed impressive strength and geographic diversity. We received applications from students with undergraduate degrees from distinguished institutions across the country including Boston College, Carleton College, Emory, Florida A&M, George

Washington University, Notre Dame, University of Michigan, University of Pennsylvania, and University of Wisconsin at Madison. Scholarship contributions have a tremendous impact on our ability to recruit the best and the brightest students nationally. You can learn more about our scholarships and how you can contribute by visiting www.lifesci.consortium.umn.edu/giving

In Fall of 2011 we will welcome **3 new students** pursuing the following degree combinations: JD/MA in Bioethics, JD/MPH in Environmental Health, and JD/PhD in Conservation Biology. 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 2010-11 **Wolf Scholarship in Law, Health & the Life Sciences**; one student received a one-year **Harold M. Fredrikson Memorial Scholarship**; two students received a partial **JDP Scholarship**; two received a partial **Law School Scholarship**; and one received a guaranteed **Graduate Research or Teaching Assistantship**.

Graduate School students are also eligible to apply for the following interdisciplinary fellowship opportunities:

- The Mark and Judy Yudof Fellowship is for graduate students (Master's 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 \$22,000 for the academic year. For more information, see www.grad.umn.edu/fellowships/endowed/
- The Interdisciplinary Doctoral Fellowship is awarded to outstanding Graduate School students whose current or proposed dissertation topic is interdisciplinary and who would benefit from interaction with faculty at one of the University's interdisciplinary research centers or institutes. Recipients of the Fellowship in 2011-12 will receive a stipend of \$22,500 for the academic year, plus full tuition. Twelve Fellowships were awarded for 2010-11.

Student Honors & Achievements

Students in the Joint Degree Program are talented, innovative, and committed. They are pursuing cutting-edge fields of study. We are proud to list their selected accomplishments in 2010-11:

Heather Baird, JD, MPH candidate in Public Health Administration & Policy, joined the Joint Degree Program in 2009. In 2010, she was a Summer Intern with the Johns Hopkins Bloomberg School of Public Health. In Spring 2011, she clerked at the U.S. Attorney's Office. In Summer 2011, she worked on a variety of health law matters as a summer associate at Benesch Friedlander Coplan & Aronoff in Columbus, Ohio.

Lauren Beach, JD, PhD candidate in Molecular, Cellular, Developmental Biology & Genetics, joined the Joint Degree Program in 2007. She is currently funded by a three-year National Institutes of Health (NIH) individual fellowship. In July 2011, she presented her research at the American Society for Virology conference. In 2010, Lauren received the University of Minnesota's Mary A. McEvoy Award for Public Engagement and Leadership in recognition of her academic achievements and service benefiting the GLBT communities.

Joseph Dammel, JD, MS candidate in Science, Technology & Environmental Policy, joined the Joint Degree Program in 2009. In 2010-11, he worked as a Research Assistant for Prof. Elizabeth Wilson at the Humphrey School of Public Affairs, where he studied the legal implications of geologic sequestration of carbon dioxide. In Spring 2011, he co-authored an article that was published in the journal *Environmental Science and Technology*. In 2010-11 he was a staff member of the *Minnesota Journal of Law, Science & Technology*, Volume 12, and was elected Editor-in-Chief for Volume 13. His Note on the regulation of hydraulic fracturing was selected for publication in Volume 12:2. In Summer 2011, he worked for the U.S. Environmental Protection Agency in the agency's Superfund division.

Anne Dwyer, JD, MPH candidate in Public Health Administration & Policy, served as a Research Assistant to Professor Kristine Hickman as well as a Law Clerk for the Minnesota Disability Law Center in Summer 2010. In 2010-11, she served as a Law Clerk for the Battered Women's Justice Project. She worked with Prof. Sarah Gollust on a media content analysis of the release of the U.S. Preventive Services Task Force guidelines for breast cancer screening. In Summer 2011, she worked at the National Health Law Program (NHeLP).

Brian Grady, JD, MPH candidate in Public Health Administration & Policy, was involved with many Minnesota Justice Foundation projects in 2010-11 including: Housing Court Outreach Advocate for Renters in Foreclosure, Mankato Family Law Clinic, and Health Care Decisions Day. In Summer 2011 he worked as a Law Clerk at the Minneapolis law firm of Aafedt, Forde, Gray, Monson & Hager, P.A. and as a Research Assistant for Prof. Susan Wolf.

David Hanna, JD, MS candidate in Chemistry, worked as a chemical patent searcher for the University of Minnesota Office of Technology Commercialization (OTC) in 2010. In Summer 2010, he drafted biochemical and mechanical device patent applications and Office Action responses as a clerk at Westman, Champlin & Kelly. In 2010-11, he also served as President of the Student Intellectual Property Law Association (SIPLA).

Rachel Herder, JD, PhD candidate in Molecular, Cellular, Developmental Biology & Genetics, joined the Joint Degree Program in 2006. In Spring 2011, she was a Teaching Assistant for Prof. Jeffrey Kahn's course on Biomedical Ethics. She was awarded a Developmental Biology Training Grant through the University of Minnesota's Developmental Biology Center's NIH Grant. She will be presenting a poster on her PhD research entitled "Regulation of ecdysone biosynthesis in *Drosophila melanogaster*" at the 70th Annual Society for Developmental Biology Meeting in Chicago, IL.

Sally Houthouse, JD, MPH candidate in Public Health Administration & Policy, enrolled in the Joint Degree Program in 2009. During Summer 2010, she was awarded a grant from the Minnesota Justice Foundation to serve as a law clerk at the Minnesota Disability Law Center. In 2010-11, she was a Research Assistant for the Long-Term Care Research Center. She is currently a student worker at the Minnesota Department of Human Services (DHS) Interagency Office of Health Reform.

Elizabeth Karan, JD, MPH candidate in Public Health Administration & Policy, joined the Joint Degree Program in 2008. During Spring and Summer 2010, she worked as a Law Clerk in the Legal Management Office of the Minnesota Department of Health and Human Services. She also worked with Prof. Lynn Blewett on a comparative health systems article which was published in *Minnesota Medicine* magazine. In 2010-11 she was a Managing and Research Editor for the *Minnesota Law Review* and spent Spring 2011 studying at Tilburg University in the Netherlands. During Summer 2011, she worked with the Legal Department at the Cleveland Clinic.

Catherine London, JD, MPH candidate in Public Health Administration & Policy, joined the Joint Degree Program in 2009. In 2010 she served as a Law Clerk in Mayo Clinic's Legal Department. During Summer 2011 she worked as a Summer Associate at Fredrikson & Byron. She served as Lead Managing Editor of *Law & Inequality: A Journal of Theory and Practice*. Her article, "Racial Impact Statements: A Proactive Approach to Addressing Racial Disparities in Prison Populations," was published in Volume 29. Her article, "Advancing a Surrogate-Focused Model of Gestational Surrogacy Contracts," has been accepted for publication in Fall 2011.

Pari McGarraugh, JD, MPH candidate in Public Health Administration & Policy, joined the Joint Degree Program in 2009. She spent Summer 2011 working as a Law Clerk in the Mayo Clinic's Legal Department and as a Graduate Assistant in the State Health Access Data Assistance Center. During the 2010-11 academic year, she served as a Research Assistant for Profs. Susan Wolf and William McGeveran.

Richard Weinmeyer, MPhil, JD, MA candidate in Bioethics, joined the Joint Degree Program in 2009. He is currently the elected Joint Degree Program Student Representative on the Governing Committee, Co-Vice President for Outlaw (the Law School GLBT student group), and is a Research Assistant for Prof. Kristin Hickman examining Department of Treasury rule promulgation and regulation.

Joint Degree Program Proseminar

Since 2000 the Joint Degree Program has offered a Proseminar course for all Joint Degree Program students each Fall, on “**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.



JDP Advisory Board member Brian Dorn, JD, PhD, and JDP student Rachel Herder (JD, PhD candidate in Molecular, Cellular, Developmental Biology & Genetics) at the 2011 JDP Graduation Reception.



Prof. Alexandra Klass, JD, at the 2011 JDP Graduation Reception.

In Fall 2010, Section 1 of the Proseminar was led by Prof. Susan Wolf, JD. The schedule included:

- **Ubaka Ogbogu, LLB, LLM**, on “The History of Legal Intervention in Biomedical Controversies: A Case Study of Compulsory Vaccination Laws in 19th Century England”
- **Prof. Lynn Blewett, PhD**, on “Health Care Reform and Access Issues: Overview of the Health Care and Education Reconciliation Act of 2010 and Associated Controversy”
- **Prof. Bill McGeeveren, JD**, on “Privacy Considerations in the Development of Health Information Technology”
- **Prof. Carl Elliott, MD, PhD**, on “Impact of Commercialization on the Integrity of Biomedical Research: Examining Recent Cases of Academic Fraud or Dishonesty”
- **Prof. Ruth Okediji, LLB, LLM, SJD**, on “Recouping Public Investment in Co-Funded Scientific Research: Making a Case for Compulsory Government Royalties”
- a Career Panel, including **Erin Keyes, JD**; **Alan Haynes, JD**; **Stacey Tidball, JD**; **Andrew Gibbons, JD, MS**; and **Erin B. Furlong, JD, MPH**
- **Prof. Jeff Bender, DVM, MS**, on “Assessing the Global Response to the Veterinary and Zoonotic Infectious Disease”
- **Prof. Russell Luepker, MD, MS**, on “Ethics & Policy Issues Raised by Large-Scale Epidemiological Studies”
- **Keith Halleland, JD**, on “Evolution of Health System Reform and Payment Methodologies”
- **Prof. Doris Taylor, PhD**, on “Induced Pluripotent Stem Cells (iPS): Impact on the Scientific and Regulatory Landscape of Stem Cell Research, and on the Associated Ethical Debate”
- **Ruth Mickelsen, JD, MPH**, on “Democratic Deliberation and Bioethics: What Are We Learning?”
- **Prof. Susanna Blumenthal, JD, PhD**, on “History of the Relationship Between Law and Psychiatry”

In Section 2, Joint Degree Program students with more than 2 years of experience made 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.

Section 2 was led by **Prof. William Toscano, PhD**, Professor, Environmental Health Sciences, and **Adjunct Assoc. Prof. Leili Fatehi, JD**.

Following extensive consultation with Joint Degree Program students, the Governing Committee, and our Advisory Board, the Proseminar format and requirement will be changed effective Fall 2011. The new format will reduce the demand on JDP students and allow for greater flexibility in program planning. Under the new design, there will only be one section of the Proseminar for all students, thus allowing more interaction between new students with more advanced students. JDP students will now only be required to take the Proseminar twice, typically during their first and second years in the program. Following two years of enrollment in the Proseminar, JDP students may choose annually whether to enroll. Students who have taken the Proseminar twice will also be allowed the opportunity to present at the Proseminar.

The Fall 2011 schedule includes:

- **Prof. William Toscano, Jr., PhD**, Director, Center for Environment & Health Policy; Professor of Molecular Toxicology; Head, Division of Environmental Health Sciences; Chair, Center for Global Health and Social Responsibility; and Associate Director, Joint Degree Program in Law, Health & the Life Sciences, on "Emerging Global Diseases"
- **Prof. Kathleen Thiede Call, PhD**, Director of Graduate Programs, Health Services Research, Policy & Administration, on "National Health Reform and Immigrant Populations: Who Is Left Behind?"
- **Prof. Hari Osofsky, JD**, Law School, and Associate Director of Law, Geography & Environment, Consortium on Law and Values in Health, Environment & the Life Sciences, on "Proposal for a Legal Framework for Geoengineering Climate Change"
- **Prof. Brian Van Ness, PhD**, Co-Director, Institute of Human Genetics, and Professor, Department of Genetics, Cell Biology and Development, on "The Ethical, Clinical, and Bench Science Implications of Returning Individual Research Results and Incidental Findings from Genomic Research"
- **Prof. Frances Lawrenz, PhD**, Associate Vice President for Research and Professor, Educational Psychology, on "Interdisciplinary Research in Science: The Significance of Evaluating Study Design and Research Methodologies"
- **Prof. Daniel Schwarcz, JD**, Law School, on "Where Does Health Insurance Fall in the Larger Concept of Insurance Law?"
- **Prof. Elizabeth Wattenberg, PhD**, Environmental Health Sciences, on "Policy Dimensions of Cancer Epidemiology"
- **Prof. Debra DeBruin, PhD**, Interim Co-Director, Center for Bioethics, and Assistant Professor, Department of Medicine, on "Ethical Issues Regarding Including Women in Research"
- **Prof. Craig Hedberg, PhD**, Environmental Health Sciences, on "Surveillance and Control of Foodborne Disease"
- **Richard Weinmeyer MPhil** (JD, MA candidate in Bioethics), on "HIV/STD Partner Notification"
- **Mark Ellinger, JD, PhD**, Senior Principal, Fish & Richardson, LLC., on "The Significance of Stem Cell Patents to Discovery, Research, and Use of New Cell-Based Therapies"
- **Prof. Susan Galatowitsch, PhD**, Restoration Ecology, Horticulture Science, on "Policy Considerations in Ecosystem Restoration"
- **Prof. Beth Virnig, PhD, MPH**, Associate Dean for Research and Professor, Division of Health Policy & Management, School of Public Health, on "Ethical and Policy Issues in End-of-Life Care"

For more information, visit www.jointdegree.umn.edu



JDP student Sara Koering (JD, MPH candidate in Public Health Administration & Policy) with JDP Advisory Board members Kim Otte, JD, MA, and Margo Struthers, JD, at the Spring 2011 JDP Graduation Reception.

Concentration in Health Law & Bioethics

Top: Rachel Herder (JD, PhD
candidate in Molecular, Cellular,
Developmental Biology &
Genetics)

Bottom: Mia Hunt (JD, MPH
graduate in Public Health
Administration & Policy)

In 2010-11, the University of Minnesota Law School was again ranked in the top 10 Health Law Programs by *U.S. News & World Report*. The University of Minnesota Law School offers Concentrations, enabling law students to specialize in fields such as Health Law & Bioethics, Human Rights Law, and Labor & Employment Law. Beginning Fall 2011, students may also earn a Concentration in Environment and Energy Law, or in Business Law.



The **Concentration in Health Law & Bioethics** continues to grow. In Spring 2011, 9 law students completed the requirements of the Concentration: Bernadette Conteh, Rachel Herder, Mia Hunt, Christian Krautkramer, Paul Landahl, Amanda Maccoux, Kristin Paulson, Talor Pierce, and Eva Stensvad. An additional 23 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. 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, MA, 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 begin to address the legal implications of law, bioethics, health care delivery, health care reform, genetics and assisted reproduction, mental health issues, insurances, and food and drug law. The following faculty represent a cross-section of nationally distinguished scholars who teach in health law and bioethics:

Concentration Core Faculty—Law School:

Prof. Stephen F. Befort, JD (Law)
Prof. Brian Bix, DPhil, JD (Law; Philosophy)
Prof. Suzanna Blumenthal, PhD, JD (Law; History)
Prof. Dale Carpenter, JD (Law)
Prof. Michelle B. Goodwin, JD, LLM (Law)
Prof. Ralph Hall, JD (Law)
Prof. Jill Hasday, JD (Law)
Prof. Amy Monahan, JD (Law)
Prof. Ruth Okediji, LLB, LLM, SJD (Law)
Prof. Daniel Schwarcz, JD (Law)

“The Concentration in Health Law & Bioethics gave me exposure to a broad range of health and ethical issues in law and how those issues are incorporated into the practice of health law. Understanding the intersection of health, ethics, and law is critical for my job in health policy and that knowledge is exactly what the Concentration covered.”

—Kristin Paulson, JD, MPH
Research Associate
School of Medicine
Division of Pulmonary and Critical Care Medicine
University of Minnesota



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. 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. Gregory A. Plotnikoff, MD, MTS (Clinical Medicine, Pediatrics)
 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/faculty_and_staff/core_faculty

Law School Student Organizations

The Joint Degree Program encourages students to get involved in relevant student organizations such as the Health Law & Bioethics Association (HLBA), the Student Intellectual Property Law Association (SIPLA), and the Environmental Law Society.

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 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 experiences of others while formulating their career strategies.

Environmental Law Society

The Environmental Law Society (ELS) works to improve opportunities at the Law School for studying and embarking on the practice of environmental law, and to apply legal skills to current environmental problems.

For more information on student organizations, visit www.law.umn.edu/prospective/studentorgs.html

Joint Degree Program Student Fellows

The JDP Fellows Program, established in 2008-09 in consultation with the JDP Advisory Board, provides the opportunity for students to get involved in the program who already hold a degree in law or in the sciences and are not enrolled as joint degree students. Each fall, law students who hold an advanced degree in a health or life science field and graduate students in a health or life science field who already have a JD are invited to be Joint Degree Program Student Fellows while enrolled in the Law School or the Graduate School.

2010-11 FELLOWS

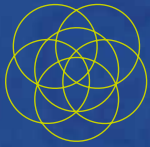
Laura Arneson, PhD
 Christian Krautkramer, MPH
 Tommy Noh, PhD
 Eva Stensvad, MD
 Xinghao Wang, MA, PhD
 Xuelin Wang, PhD
 Trevor Woodage, PhD
 Elizabeth Sandberg, MS

ALUMNI

Timothy Christman, JD ('09), MS
 Mathew Easterday JD ('09), PhD
 Rebecca Hays, JD ('10), PhD
 Laurie Kellogg, JD ('10), MS, PhD



JDP students Richard Weinmeyer, MPhil (JD, MA candidate in Bioethics); Keli Holzapfel (JD, PhD candidate in MCDB&G); Christopher Walker (JD, MPH candidate in Epidemiology); and Elizabeth Karan (JD, MPH candidate in Public Health Administration & Policy) at the Fall 2010 JDP Advisory Board Reception.



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

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



JDP students Ashley Zborowsky (JD, MPH candidate in Public Health Administration & Policy); Keli Holzapfel (JD, PhD candidate in Molecular, Cellular, Developmental Biology & Genetics); and Kristin Paulson (JD, MPH candidate in Public Health Administration & Policy) at the Fall 2010 JDP Advisory Board Reception.



JDP Advisory Board members Keith Halleland, JD; Paul Saveriede, JD, PhD; and Mark Ellinger, JD, PhD, at the Spring 2011 JDP Graduation Reception.

Joint Degree Program Events

The Joint Degree Program hosts several events throughout the Academic Year. In 2010-11 the JDP held a Fall Student Welcome Reception, a Fall JDP Advisory Board Reception hosted by Lindquist and Vennum LLP, and a Spring JDP Graduation Reception. The JDP also co-sponsors the Deinard Memorial Lecture on Law & Medicine with the Center for Bioethics, and co-sponsors the Lecture Series on Law, Health & the Life Sciences with the Consortium on Law and Values in Health, Environment & the Life Sciences.



R. Alta Charo, JD (University of Wisconsin-Madison and U.S. Food and Drug Administration) lectures at the 2010-11 Deinard Memorial Lecture on Law & Medicine, co-sponsored by the Joint Degree Program and the Center for Bioethics, with generous support from the Deinard family and the law firm of Leonard Street and Deinard.

2010-11 Joint Degree Program Graduates



MIA HUNT
JD/MPH in Public Health
Administration & Policy

Mia Hunt, JD, MPH in *Public Health Administration & Policy*

Mia Hunt joined the Joint Degree Program in 2009 after completing her first two years of Law School at the University of Minnesota. She earned her BS in Biology with a Bioethics minor from Lawrence University and was a member of Phi Beta Kappa. In Summer 2009, she interned with the Minnesota Coalition against Sexual Assault, funded by a Robina Public Policy Fellowship. While interning she participated in the Human Trafficking Task Force Legislative Committee and helped draft proposed legislation. In Summer 2010, she clerked at the Minnesota Department of Human Services, where she has continued to work in 2010-11. Ms. Hunt completed a policy specialty area at the School of Public Health and a Concentration in Health Law & Bioethics in the Law School.



JAMIE KURTZ
JD/MS in Pharmacology

Jamie Kurtz, JD, MS in *Pharmacology*

Jamie Kurtz joined the Joint Degree Program in 2008 after completing her first year in Law School. She earned a BS in Pharmacology and Toxicology from the University of Wisconsin, Madison. She interned at the Wisconsin Alumni Research Foundation in the Summer of 2008. She also worked for Axley Brynerson, LLP. In 2009-10 she participated in the Intellectual Property Moot Court, becoming a Student Director the next year. In Summer 2010, she worked with Robins Kaplan Miller & Ciresi, LLC as a Summer Associate focusing on trademark and patent law. Ms. Kurtz graduated in December 2010 and in April 2011 began work as an Associate at Robins Kaplan Miller & Ciresi, LLC in the Intellectual Property Litigation Department.



BRITTA ORR
JD/MPH in Public Health
Administration & Policy

Britta Orr, JD, MPH in *Public Health Administration & Policy*

Britta Orr joined the Joint Degree Program in 2005, after receiving her BA in Philosophy from Northwestern University. While a law student, Ms. Orr clerked for the Bloomington firm of Larkin Hoffman Daly & Lindgren Ltd. She completed her public health field experience in the division of Health Policy & Medical Management at the Minnesota Department of Human Services. Since graduating Law School and being admitted to the bar in 2009, Ms. Orr has worked at the Minnesota Medical Association developing policy and advocating on behalf of Minnesota physicians. She completed her Master's project, "Paid Parental Leave in America: Defining the Access Gaps," in 2011.



KRISTIN PAULSON
JD/MPH in Public Health
Administration & Policy

Kristin Paulson, JD, MPH in *Public Health Administration & Policy*

Kristin Paulson joined the Joint Degree Program in Fall 2007, beginning her studies in the Law School. She graduated with a BA in Population Biology and a minor in Philosophy from the University of Colorado at Boulder. She began her Master's work at the University of Colorado Health Sciences Center in Epidemiology, transferring to a Master's Program in Public Health Administration & Policy at the University of Minnesota. She was awarded a fellowship from the Upper Midwest Human Rights Foundation to study health care systems and policy development in Nepal in Summer 2010. In 2008-10, she was employed through the Center for Bioethics and the Medical School as a Research Assistant for Prof. Maryam Valapour, working on transplantation policies and ethics. Since graduating, she has continued her work with Dr. Valapour in the School of Medicine as a Research Associate.



TAYLOR PIERCE
JD/MPH in Public Health
Administration & Policy

Taylor Pierce, JD, MPH in *Public Health Administration & Policy*

Taylor Pierce joined the Joint Degree Program in Fall 2007, beginning her studies in the Law School. She graduated *summa cum laude* from Emory University with a BA in Spanish and a double major in Latin American and Caribbean Studies. During Law School, she served as a Law Clerk for the Legal Aid Society of Minneapolis in the Housing Unit, worked for the Refugee Health Program of the Minnesota Department of Health, volunteered at the Battered Women's Legal Advocacy Project, worked as a Research Assistant for Prof. Marsha Freeman, and was a Fellow at the Centre for Public Interest Law in Accra, Ghana, funded by the Robina Public Policy and Upper Midwest Human Rights fellowship programs. She also served as the Managing Editor for the *Minnesota Law Review*. In Summer 2010, she worked as a Summer Associate for the Cleveland Clinic Law Department. Once admitted to the Ohio Bar, she will be a Staff Attorney in the Regulatory Group of the Cleveland Clinic's Law Department.



LINDSEY YOCK
JD/MD

Lindsey Yock, JD, MD

Lindsey Yock joined the Joint Degree Program in 2005. In 2008, she was awarded her JD, *magna cum laude*, with a concentration in Health Law & Bioethics, and was admitted to the Minnesota Bar. She served as a Note & Comment Editor for the *Minnesota Law Review* in 2007-08 and as a staff member in 2006-07. While a law student, she worked as a Research Assistant for Prof. Susan M. Wolf and as a judicial intern for U.S. District Court Judge Patrick J. Schiltz. She is an honors graduate of Harvard University, where she earned a BA in Biochemistry. She received her MD in May 2011 and began a residency in pediatrics at the Mayo Clinic, in Rochester, MN.

Joint Degree Program Alumni & Careers

Post-graduation career options for students with joint degrees are diverse. Law firms, educational institutions, state and federal agencies, nonprofit organizations, and private corporations are all looking for talented individuals with degree combinations that we offer through the JDP. Our 39 alumni are working in careers in private practice, business & industry, government, and academia.

51% of JDP alumni are working in Minnesota, with 49% in cities including:

- San Diego, CA
- San Francisco, CA
- Denver, CO
- Chicago, IL
- Boston, MA
- Houston, TX
- Seattle, WA
- Washington, DC

Past and current alumni have gone on to judicial clerkships including for:

- Hon. Robert R. Beezer, 9th Circuit Court of Appeals
- Hon. David S. Doty, U.S. District Court, District of Minnesota
- Hon. Patricia O. Cotter, Montana Supreme Court

Our alumni currently hold positions with the following firms and organizations:

Private firms:

- Brinks Hofer Gilson & Lione (IL)
- Casimir Jones (WI)
- Covington & Burling (CA)
- Dorsey Whitney (MN)
- Goodwin Procter (CA)
- Halleland Habicht (MN)
- Hogan Lovells (DC)
- K&L Gates (WA)
- Leonard Street and Deinard (MN)
- Patterson Thuente (MN)
- Proskauer Rose (MA)

JDP students have held a wide variety of Summer Internships and Fellowships. The majority of JDP students pursue a JD with a Master's degree, which can be completed in 4 years. As a result, these students have 3 summers to intern. JDP students are encouraged to use the third summer to pursue a wide variety of summer experiences.

Summer placements have included:

Private firms:

- Aefedt Forde Gray Monson & Hager PA (MN)
- Benesch, Friedlander, Coplan & Aronoff LLP (OH)
- Chadbourne & Parke (NY)
- Dorsey & Whitney (MN)
- Faegre & Benson (MN)
- Fulbright & Jaworski (DC)
- Hogan Lovells (DC)
- Hurley, Burish and Milliken (WI)
- Kaplan, Strangis and Kaplan, PA (MN)
- K&L Gates (WA)
- Nilan Johnson Lewis (MN)
- Merchant & Gould (MN)
- Robins Kaplan Miller & Ciresi, LLC (MN)
- Stoel Rives (MN)
- Westman, Champlin & Kelly (MN)
- Wilson Sonsini Goodrich & Rosati (CA)

Judges and government agencies:

- Hennepin County Office of Multi-Cultural Services
- Justice James C. Nelson, Montana Supreme Court
- MN Department of Health
- MN Department of Human Services
- Magistrate Judge Holly Fitzsimmons (CT)

- Robins Kaplan Miller & Ciresi (MN)
- Sherman & Howard (CO)
- Sterne Kessler Goldstein & Fox (DC)
- Stoel Rives (MN)
- Viksnins Harris Padys (MN)
- Wilson Sonsini Goodrich & Rosati (CA)
- Winthrop & Weinstine (MN)

Academia & research:

- School of Public Health, UMN

Public interest and advocacy organizations:

- MN Medical Association
- BioBusiness Alliance (MN)

Government agencies:

- MN Attorney General, Department of Human Rights
- MN Office of the Legislative Auditor, Program Evaluation Division
- U.S. Department of Agriculture, Office of the General Counsel (DC)
- U.S. Department of Health and Human Services, Office of Counsel to the Inspector General (DC)
- U.S. Centers for Medicare & Medicaid (MD)
- U.S. Food and Drug Administration (DC)
- U.S. Occupational Safety & Health Administration (DC)
- U.S. Patent & Trademark Office (VA)

Companies:

- Boston Scientific (MN)
- St. Luke's Episcopal Health System (MN)

- Office of the Judge Advocate General (DC)
- U.S. District Court Judge Joan Erickson (MN)
- U.S. District Court Judge Patrick J. Schultz (IL)
- U.S. District Court Judge Richard H. Kyle (MN)
- U.S. District Court Judge John R. Tunheim (MN)
- U.S. Environmental Protection Agency (MA)
- AARP (DC)
- Battered Women's Justice Project
- Center for Public Interest Law
- Clean Water Action
- Defenders of Wildlife
- Earthjustice (CO)
- Families USA Foundation
- Farmers Legal Action Group
- HIV Alliance (OR)
- Legal Aid Society, MN Center for Environmental Advocacy
- MN Aids Project
- MN Coalition Against Sexual Assault
- MN Disability Law Center
- National Business Group on Health (DC)
- National Health Law Program (DC)
- Southern Minnesota Regional Legal Services
- World Health Organization (Geneva)

Joint Degree Program Alumni

- Robert Berlin, JD, MPH
- Melanie E. Kleiss Boerger, JD, MS
- Kari Bomash, JD, MPH
- Kelsey Brodsho, JD, MS
- Ilina Chaudhuri, JD, MPH
- Benjamin Coler, JD, MS
- Trevor K. Copeland, JD, MS
- Jill Dabrowski, JD, MPH
- Sharada Devarasetty, JD, MS
- Lilly Ewing, JD, MS
- Erin Furlong, JD, MPH
- Leslie Rawles Gallagher, JD, MS
- Andrew Gibbons, JD, MS
- Glenna Gilbert, JD, MS
- Robert Goetz, JD, MS
- Jonathan Hareid, JD, PhD
- Lindsey Hopper, JD, MPH
- Mia Hunt, JD, MPH
- Margaret Jacot, JD, MS
- Stephanie Johnson, JD, MS
- Rebekah Kent, JD, MS
- Laurel Kilgour, JD, MS
- Ji Eun Kim, JD, MS
- Katherine Krueger, JD, PhD
- Jamie Kurtz, JD, MS
- Crystal Liu, JD, MPH
- Geeta Naidu, JD, MPH
- Garret Olson, JD, MS
- Britta Orr, JD, MPH
- Jenny Cooner Patten, JD, MHA
- Kristin Paulson, JD, MPH
- Susan Pribyl Perera, JD, MS
- Sarah Johnson Phillips, JD, MS
- Taylor Pierce, JD, MPH
- Marie Quasius, JD, MPH
- Lisbeth Robinson, JD, PhD
- KJ Starr, JD, MPH
- Jeannine J. Thiele, JD, MS
- Lindsey Yock, JD, MD

Companies:

- Children's Hospital (CO)
- Cleveland Clinic (OH)
- Excelsior Energy (MN)
- Mayo Clinic (MN)

Research organizations:

- Centre for Environmental Economics, Central Queensland Univ., Australia
- HIV/STI Intervention & Prevention Studies Program, Div. of Epidemiology, UMN
- Office of Technology Commercialization, UMN
- Research Subjects' Protection Programs & Office of Regulatory Affairs, UMN
- Wisconsin Alumni Research Foundation, UW, Madison

Fellowships:

- Dissertation Fellowship, Graduate School, UMN
- First-Year Fellowship, Graduate School, UMN
- Midwest Human Rights Fellowship, Human Rights Center, Law School
- Robina Public Policy Fellowship, Law School

Joint Degree Program Faculty & Governing Committee

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



Susan M. Wolf, JD

Joint Degree Program Faculty

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 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. Prof. Wolf is an elected Member of the National Academy of Sciences' Institute of Medicine (IOM), an elected Fellow of the American Association for the Advancement of Science (AAAS), and an elected Fellow of The Hastings Center as well as a past-member of the Fellows' Council. She has received numerous grants to support her research, including from the National Institutes of Health (NIH), National Science Foundation (NSF), and The Greenwall Foundation. She received her AB *summa cum laude* from Princeton University and her JD from Yale Law School, with graduate work at Harvard University. She is the author or co-author of numerous articles and book chapters that have appeared in *Science*, *Nature Genetics*, *New England Journal of Medicine*, *Journal of the American Medical Association (JAMA)*, *Journal of Nanoparticle Research*, *American Journal of Public Health*, *Hastings Center Report*, *Kennedy Institute of Ethics Journal*, *American Journal of Law & Medicine*, *Journal of Law, Medicine & Ethics*, various law reviews, and other publications. 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, law and science, and bioethics. Prof. Wolf's biography and bibliography may be found at www.law.umn.edu/facultyprofiles/wolfs.html.



William Toscano, Jr., PhD

William Toscano, Jr., PhD, is Professor and Head of the Division of Environmental Health Sciences and Head of Global Programs at the University of Minnesota School of Public Health. He is Associate Director of the Joint Degree Program in Law, Health & the Life Sciences and Director of the Center for Environment & Health Policy. He was elected a Fellow of the American Association for

the Advancement of Science (AAAS) in 2006. He serves on numerous editorial boards, including the Faculty Editorial Advisory Board of the *Minnesota Journal of Law, Science & Technology*. Prof. Toscano received a PhD in Biochemistry at the University of Illinois, Urbana-Champaign in 1978. In 1980 he joined the faculty at the Harvard University School of Public Health, where he was an Assistant and Associate Professor of Toxicology. In 1989 he joined the Faculty of the then-Division of Environmental and Occupational Health at the School of Public Health at the University of Minnesota. In 2011, he received an

honorary Doctoral Degree from Geomedi University, Tbilisi, Georgia for contributions to public health education in the Republic of Georgia. Prof. Toscano's biography and bibliography may be found at www.sph.umn.edu/facstaff/ourfaculty/faculty.asp?x5=tosca001.



Hari Osofsky, JD

Hari Osofsky, JD, is Associate Professor of Law and Associate Director of Law, Geography & Environment, Consortium on Law and Values in Health, Environment & the Life Sciences, University of Minnesota. She is an Affiliated Faculty member in Geography and Conservation Biology. She received her BA and JD from Yale University. She also is a PhD candidate in the Depart-

ment of Geography at the University of Oregon. She has published a co-edited book on climate change litigation with Cambridge University Press and has a casebook on climate change law and policy forthcoming with Aspen Publishers. Her recent articles have been awarded the Daniel B. Luten Award for the best paper by a professional geographer by the Energy and Environment Specialty Group of the Association of American Geographers and have twice been runner-up for inclusion in *Land Use and Environment Law Review's* annual compilation of the top land use and environmental law articles. She is President-elect of the Association for Law, Property, and Society, a member of the Executive Council of the American Society of International Law, and served as co-chair of the American Society of International Law's 2010 Annual Meeting. She also is a member of the International Law Association's Committee on the Legal Principles of Climate Change, the Executive Committee of the American Association of Law Schools' Section on Property, and the Board of Governors of the Society of American Law Teachers (SALT). Prof. Osofsky's biography and bibliography may be found at www.law.umn.edu/facultyprofiles/osofskyh.html.



Leili Fatehi, JD

Leili Fatehi, JD, was Associate Director of Research & Education for the Consortium on Law and Values and the Joint Degree Program; Adjunct Associate Professor of Law; and Faculty Editor-in-Chief for the *Minnesota Journal of Law, Science & Technology*, University of Minnesota in 2010-11. She received her JD from the

University of Minnesota in 2010 and her BS from Cornell University in 2005. She has served on the Consortium's NSF-funded Nanostructure Interdisciplinary Research Team (NIRT) project on "Evaluating Oversight Models for Active Nanostructures and Nanosystems" and the NIH-funded project on "Nanodiagnostics and Nanotherapeutics: Building Research Ethics and Oversight." Her research interests are in the legal, ethical, and social implications of nanotechnology and other emerging technologies.

Joint Degree Program Governing Committee



Kathleen Thiede Call, PhD

Kathleen Thiede Call, PhD, is Associate Professor and Director of Graduate Programs in Health Service Research, Policy & Administration in the School of Public Health. Prof. Call is an Investigator at the State Health Access Data Assistance Center (SHADAC) funded by the Robert Wood Johnson Foundation. She co-chairs the Health Disparities Work Group in the School of Public Health and is Co-Chair of the community engagement core for the Center for Health Equity.



Margaret Chutich, JD

Margaret Chutich, JD, is Assistant Dean for the Humphrey School of Public Affairs, where her responsibilities include Graduate Student Services. Prior to her current position, she worked with the Office of the Minnesota Attorney General (1992-2008). She also worked as an Assistant U.S. Attorney for the District of Minnesota from 1994 to 1996.

She is a member of the Judicial Selection Commission and of the Minnesota Women's International Forum.



Kathleen Conklin, PhD

Kathleen Conklin, PhD, is Associate Professor in the Department of Genetics, Cell Biology & Development and the Director of Graduate Studies of the Molecular, Cellular, Developmental Biology & Genetics Graduate Program. Prof. Conklin received her BA from Barnard College, Columbia University in 1974 and her PhD in 1987 at the Tufts University

Medical School's Sackler School of Graduate Biomedical Sciences.



Debra DeBruin, PhD

Debra DeBruin, PhD, is Assistant Professor and Interim Co-Director, Center for Bioethics. Prof. DeBruin has served as a Health Policy Fellow for the United States Senate. She has worked as a consultant to the National Academy of Science's Institute of Medicine and the National Bioethics Advisory Commission. She has also served on a number of health

policy working groups for the State of Minnesota.



Judith Garrard, PhD

Judith Garrard, PhD, is Professor, Division of Health Policy and Management, and Senior Associate Dean of Academic Affairs and Research in the School of Public Health. Her research specialty is pharmacoepidemiology and patient outcomes. She has been Principal Investigator on research grants from the National Institutes of Health (NIH),

AHRQ, HCFA, and private foundations including the AARP Andrus Foundation, Retirement Research Foundation, and the American Society for Consultant Pharmacists.



Sharon Jansa, PhD

Sharon Jansa, PhD, is Associate Professor and Director of Graduate Admissions in the Department of Ecology, Evolution, and Behavior. Her research is primarily concerned with the systematics and bio-geography of localized mammalian radiations. She received her PhD from the University of Michigan.



Erin Keyes, JD

Erin M. Keyes, JD, is Assistant Dean of Students at the University of Minnesota Law School, where she oversees the Student Services Division. She is a member of the Minnesota State Bar Association (MSBA) and Co-Chair of the Life and Law Committee. She is also a member of the CLE sub-committee of the Diversity

Implementation Taskforce and a member of the Law School Initiatives subcommittee of the Legal Assistance to the Disadvantaged Committee. She earned a BA from Carleton College, and a JD from the University of Minnesota Law School. She was recognized in 2010 by the ABA Commission on Lawyer Assistance Programs (CoLAP) with the Law Student Wellness Award for her work with the Minnesota Law Student Working Group.



Michael A. Kilgore, PhD

Michael A. Kilgore, PhD, is Professor, Department of Forest Resources, and Director of Graduate Studies in the Natural Resources Science and Management program. His research interests include consequences of alternative timber harvesting and forest management, and the use and effectiveness of various policy tools

to promote sustainable natural resources management. He received his PhD in Natural Resources Economics, Policy & Administration from the University of Minnesota.



Karen Oberhauser, PhD

Karen Oberhauser, PhD, is an Associate Professor in the Department of Fisheries, Wildlife and Conservation Biology; Director of the Monarchs in the Classroom Program and the Monarch Larva Monitoring Project; and Director of Graduate Studies in the Conservation Biology Program. She teaches Conservation Biology to graduate and undergraduate students from

September through May, and during the summer teaches ecology courses to K-12 teachers, focusing on monarchs and their environment.



Carol Rachac, MA

Carol Rachac, MA, is the Associate Program Director for the Consortium and the Joint Degree Program. Her duties include coordination of student admissions, student advising, program administration, budget management, strategic planning, and development. She holds a BA in Political Science and an MA in Higher Education Administration from the University of Minnesota.



Henning Schroeder, PhD

Henning Schroeder, PhD, is Vice Provost and Dean of Graduate Education. He holds a faculty appointment as Professor in the Department of Pharmaceutics. From 1995-2007 he was Head of the Department of Pharmacology at Martin Luther University (MLU) School of Pharmacy in Halle, Germany. Between 2005 and 2007 he

was a Visiting Professor at Stanford University School of Medicine, Department of Pediatrics. He received his PhD in Natural Sciences in 1985 and a lecturer degree (habilitation) in Pharmacology in 1992 from the University of Duesseldorf.



Beth Virnig, PhD, MPH

Beth Virnig, PhD, MPH, is Professor in the Division of Health Policy and Management in the School of Public Health and Co-Director of the University of Minnesota Masonic Cancer Center's Cancer Outcomes and Survivorship program. Dr. Virnig was Chair of the Public Health Administration & Policy major until Summer 2011, when she became

Associate Dean for Research, Division of Health Policy & Management, School of Public Health. She was lead author of the recently published AHRQ-commissioned study on the incidence, staging, treatment, and outcomes of Ductal Carcinoma In Situ of the breast and a member of a recent NIH-sponsored State-of-the-Science conference on increasing colorectal cancer screening.



Kathleen Watson, MD

Kathleen Watson, MD, has been the Associate Dean for Students and Student Learning at the Medical School since December 2004. She practices general Internal Medicine, and has been a teaching physician since 1985. Her recent grants and educational scholarship are in bridging education and quality improvement (ACT

II, ACT III), promoting improvement of chronic illness care education (AAMC/Macy Chronic Illness Care Education), professionalism in medical education (Relationship Centered Care Initiative), and development of the Faculty Advising Program at the University of Minnesota Medical School.



Elizabeth V. Wattenberg, PhD

and function. She received her PhD from the Massachusetts Institute of Technology.

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. Her laboratory investigates the molecular mechanisms by which carcinogenic agents interfere with the signaling pathways that control cell fate



Rick Weinmeyer, JD/MA Candidate

Program Student Representative on the Governing Committee. He was also Co-Vice President for Outlaw (the Law School GLBT student group), and is a Research Assistant for Prof. Kristin Hickman examining Department of Treasury rule promulgation and regulation.

Rick Weinmeyer, MPhil, JD, MA candidate in Bioethics, joined the Joint Degree Program in 2009. He earned his BA *summa cum laude* and Phi Beta Kappa in Political Science from the University of Washington, and went on to receive an MPhil in Sociology at Cambridge University. He was elected the 2010-11 Joint Degree



Paul T. White, JD

his Bachelor's Degree in American Studies from Yale University and his JD from Georgetown University Law Center.

Paul T. White, JD, is the Associate Dean of Admissions for the Medical School. Prior to coming to Minnesota, he was the Assistant Dean for Admissions and Financial Aid at the Johns Hopkins University School of Medicine. He also served as the Director of Undergraduate Admissions at Johns Hopkins. He received



W. Gibson Wood, PhD

regulation and function of cholesterol and the isoprenoids farnesyl pyrophosphate and geranylgeranyl pyrophosphate in brain, their involvement in neurodegenerative diseases, and the neuroprotective mechanisms of statins.

W. Gibson Wood, PhD, is Professor and Director of Graduate Studies in the Department of Pharmacology at the Medical School. He is also Associate Director for Education and Evaluation in the Geriatric Research, Education and Clinical Center located at the VA Medical Center. His laboratory is studying the

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 Lindquist and Vennum LLC hosted the reception in 2010. The law firm of Merchant & Gould will host the reception in Fall 2011.



Joint Degree Program students and JDP Advisory Board Members at the Fall 2010 Advisory Board Reception.



Martha Brand, JD

The 2010-11 Advisory Board includes:

Martha Brand, JD, now retired, was Executive Director of the Minnesota Center for Environmental Advocacy (MCEA), a non-profit organization working to protect Minnesota's natural resources, wildlife, and the health of its people. Prior to serving as Executive Director of the MCEA, she completed a Bush Foundation Leadership Fellowship and served as an environmental consultant. She was also a partner at the Minneapolis-based law firm of Leonard, Street and Deinard practicing environmental law from 1981 to 1998. She earned her JD at Boston University.



Amos S. Deinard, Jr., MD, MPH

Amos S. Deinard, Jr., MD, MPH, is Associate Professor in the Department of Pediatrics, University of Minnesota Medical School, and School of Public Health. 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 is also a recipient of the Rosalie E. Wahl Justice for Children Award from the Children's Law Center of Minnesota and the First a Physician Award from the Twin Cities Medical Society. He received his MD and MPH from the University of Minnesota.



Brian Dorn, JD, PhD

Brian Dorn, JD, PhD, Merchant & Gould, PC, practices patent law with an emphasis on patent prosecution and client counseling (U.S. and foreign). Dr. Dorn has prosecuted patents and worked on opinions regarding stem cells, humanized antibodies, siRNA, pharmaceutical delivery systems, antimicrobials, therapeutic peptides, diagnostic and immuno-assays, phage display systems, microarrays, medical device coatings, and transgenic animals. Recently, he has been a CLE speaker on the topics of gene patenting and biosimilars. He has also authored multiple, peer-reviewed scientific publications relating to his research in microbiology, human and microbial genetics, and cell biology. He received his PhD in Biomedical Sciences with a concentration in Microbiology/Immunology and his JD *magna cum laude* from the University of Florida.



Mark Ellinger, JD, PhD

Mark Ellinger, JD, PhD, is a Senior Principal, in the law firm of Fish & Richardson. His practice emphasizes patent prosecution, opinions, due diligence investigations, licensing and counseling in the medical biotechnology, agricultural biotechnology, diagnostic, pharmaceutical, and medical science fields. Dr. Ellinger is a frequent speaker on intellectual property aspects of biotechnology and is a treatise co-author and lecturer for the Patent Resources Group's course, "Pharma and Biotech Strategies for Patent Prosecution, Hatch-Waxman, Litigation and Licensing." Dr. Ellinger received a PhD in Developmental Biology from the University of Minnesota and a JD from Harvard Law School.

Erin Furlong, JD, MPH, is Compliance Counsel to the Cardiovascular Division of Boston Scientific. Ms. Furlong's career has been in-house, with a practice focus on general health, life sciences, and corporate law. She previously served as an Associate General Counsel at Medica and Associate Business Attorney at American Medical Systems. She also taught first-year Legal Writing for two years at the University of Minnesota Law School. Ms. Furlong is a graduate of the University of Minnesota's Joint Degree Program in Law, Health & Life Sciences.



Erin Furlong, JD, MPH

Keith J. Halleland, JD, is a Founder and Shareholder of Halleland Habicht. He also Co-Chairs the Health Law Practice. He focuses his practice in the areas of regulatory compliance, business transactions, and healthcare policy. He serves as General Counsel for the Health Care Compliance Association and chairs the Advisory Council of the Humphrey School of Public Affairs, University of Minnesota. He serves as general counsel to the largest high-risk insurance pool in the country, and previously created an integrated health system involving seventeen hospitals and a health plan with over one million members, as well as an integrated network of community clinics.



Keith Halleland, JD

Hubert (Skip) H. Humphrey, III, JD, is an Adjunct Professor in Public Health Policy and Law in the Division of Epidemiology and Community Health at the University's School of Public Health, and is Of Counsel ACE Panel member at Tunheim Partners. He currently serves on the National Board of Directors of AARP, and the Advocates for Human Rights, and on Board of Trustees of Shattuck-St. Mary's schools. He is a former State Senator and Minnesota Attorney General. As a longtime advocate for non-smoking, Mr. Humphrey was the first attorney general in the nation to bring an antitrust and consumer fraud lawsuit against the tobacco industry, reaching a landmark settlement. In 1999, he was awarded the Tobacco-Free World Prize by the World Health Organization. Mr. Humphrey holds a BA degree from American University and a JD from the University of Minnesota.



Hubert (Skip) H. Humphrey, III, JD

Ryan Johnson, JD, is a member of Fredrikson & Byron's Health Law, Life Sciences, Corporate, and Medicare Fraud and Abuse Groups. Among his clients are hospitals, physician groups, medical device companies, physician management companies, and other health care professionals and businesses. His experience includes representation of buyers and sellers in health care mergers and acquisitions; representation of health care providers in structuring joint ventures and strategic alliances; representation of physician groups and hospitals in civil and criminal investigations; analysis of physician self-referral (Stark), fraud and abuse, and other federal and state regulatory issues in operational matters affecting health care providers; and advising health care providers, health plans, and device manufacturers regarding patient privacy issues, including compliance with HIPAA. Mr. Johnson received his JD at the University of Minnesota.



Ryan Johnson, JD

Rep. Phyllis Kahn, PhD, MPA, is a member of the Minnesota legislature serving her 20th 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. She has been the chief author of the Minnesota Clean Indoor Air Act (controlling smoking in public places), computer crime and computer virus laws, and legislation on nuclear safety, radioactive waste disposal, field tests of genetically modified crops, and infectious waste disposal. She has also authored laws to require gender equity in athletics and laws prohibiting discrimination based on age or disability. She has been elected a Fellow of the American Association for the Advancement of Science (AAAS) and the Chair of the AAAS section on "General Interest in Science and Engineering." Rep. Kahn received a PhD in Biophysics from Yale and an MPA from the J.F.K. School of Government at Harvard University.



Rep. Phyllis Kahn, PhD, MPA

Vanessa Laird, MA, JD, is General Counsel of Optum, UnitedHealth Group's health services businesses. Prior to joining UnitedHealth Group in 2008, she served as Vice President and Senior Counsel for Medtronic's Cardiac Rhythm Management and Neuromodulation businesses and practiced U.S. and international law for the Department of State's Office of the Legal Adviser. A graduate of Williams College and Oxford University (Worcester College), she received her JD from Stanford Law School and served as a law clerk for Judge Stephen S. Trott of the U.S. Court of Appeals for the 9th Circuit.



Vanessa Laird, MA, JD

Kenneth A. Liebman, JD, Faegre & Benson LLP, is a patent litigator and a member of the firm's management committee. Mr. Liebman was recently recognized among the world's best patent litigators in the first-ever publication of "IAM 250: The World's Leading Patent Litigators." The publication highlighted his work in medical device and wireless technology litigation. He served as lead counsel for the University of Minnesota in its patent licensing litigation with Glaxo Wellcome over the AIDS drug Ziagen. The case settled with the defendant recognizing the validity of the University's patents and agreeing to pay royalties estimated to be \$300 million over the life of the patents. The settlement is reported to be the largest ever obtained by any public university in patent license litigation. He has also been an Adjunct Professor at the University of Minnesota Law School and William Mitchell Law School. He received his JD from Yale Law School.



Kenneth A. Liebman, JD



David R. Melloh, JD

David R. Melloh, JD, chairs Lindquist & Vennum's Health Law Practice Group. He has advised healthcare providers such as hospitals and integrated delivery systems, physician group practices, pharmacies, and long-term care organizations. In doing so, he has developed a national reputation in structuring hospital-physician joint ventures and other health industry transactions. Mr. Melloh specializes in devising strategies to solve complex problems and ensure compliance with applicable laws (such as the Stark and anti-kickback statutes) while helping his clients meet their business objectives. He earned a BA from Carleton College, an MA in Political Science at the University of Minnesota, and his JD from Vanderbilt University, where he was an editor of the *Vanderbilt Law Review*.



Ruth A. Mickelsen, JD, MPH, MA

Ruth A. Mickelsen JD, MPH, MA, is an Affiliate Faculty Member of the Center for Bioethics at the University of Minnesota and a Lecturer in the School of Public Health. She is a member of the Adjunct Faculty at William Mitchell College of Law, where she teaches a seminar in Bioethics and the Law. Previously, she was Vice President and Ethics Advisor for Allina Hospitals and Clinics, a non-profit hospital and clinic organization. She practiced health law in the public sector, in private practice, and as in-house counsel for over 20 years. She is currently a member of the Board of Trustees of William Mitchell. She is also a member of the Board of Directors of Park Nicollet Health System and a member of the Board of Governors for the Hazelton Graduate School of Addiction Studies. Ms. Mickelsen obtained an MA in Bioethics and Health Policy from the Stritch School of Medicine, Loyola University Chicago. She received her MPH *cum laude* from the Harvard School of Public Health and her JD *cum laude* from William Mitchell College of Law.



Kim Otte, JD, MA

Kim Otte, JD, MA, has been Legal Counsel at Mayo Clinic Rochester since 2002. Ms. Otte focuses her practice on regulatory compliance issues, including HIPAA, Medicare, and fraud and abuse. She is also a member of the Mayo Ethics Consult Service and the Mayo Reproductive Medicine Advisory Board. Ms. Otte participates in education of the medical school students, residents, and nurses at Mayo. Ms. Otte is on the governing council for the In House Practice Group of the American Health Lawyers Association and for the Health Law Section of the MSBA. 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 and a Master's in Philosophy from the University of Minnesota.



Winthrop A. Rockwell, JD

Winthrop A. Rockwell, JD, Faegre & Benson LLP, concentrates on commercial and product liability litigation. He is a member of Faegre & Benson's Management Committee, where his responsibilities include practice development, strategy, and international matters. Mr. Rockwell served for 6 months in 1979 as Associate General Counsel of President Carter's Commission on the Accident at Three Mile Island. He has served as a board member of various Minnesota non-profit organizations, is a current member of the Minnesota Advisory Board of the Trust for Public Land, and is a past member of the Board of Directors of the Minnesota Center for Book Arts. 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. He received his JD from New York University.



Mark Rotenberg, JD, MA, MPhil

Mark Rotenberg, JD, MA, MPhil, serves as the University of Minnesota's General Counsel. Previously, he was a partner at Dorsey & Whitney, specializing in employment litigation and labor law. He served in the U.S. Department of Justice's Office of Legal Counsel, which provides legal counsel to the President, White House staff, and heads of the Executive Departments. Mr. Rotenberg also served as a Law Clerk to the Honorable Patricia M. Wald, U.S. Court of Appeals, District of Columbia Circuit. 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. He earned his BA *magna cum laude* from Brandeis University, and his MA, MPhil, and JD from Columbia University, where he also served as an Editor of the *Columbia Law Review*.



Ann L. Russell, JD, MSW

Ann L. Russell, JD, MSW, now retired, is a lawyer with 25 years of experience in advising health care entities. She was most recently an Associate Counsel for Catholic Health Initiatives, a national non-profit 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 has extensive experience in advising health care providers on transactional, operational, regulatory, and patient care matters as well as ethical dilemmas. She is currently a member of the Ethics Committees of the University of Minnesota Medical Center, Fairview, and Hennepin County Medical Center, and serves on the Ethics Advisory Committee to the Archbishop of St. Paul, MN. Ms. Russell teaches biomedical ethics at William Mitchell College of Law.

Paul Savereide, JD, PhD, is Intellectual Property Counsel with Viksnins, Harris & Padys PLLP. He was recently a Senior Associate at Patterson, Thuente, Skaar, and Christensen. 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 Dorsey & Whitney. 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. He earned his JD and his PhD in Cell and Developmental Biology from the University of Minnesota.

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. Her practice focuses on life science patent law with a special emphasis on patent interferences and appeals to the Court of Appeals for the Federal Circuit. Ms. Shetka was involved in two especially important Federal Circuit appeals addressing the patentability of DNA sequences, as principal author in an appeal on behalf of Chiron Corporation and as *amicus curiae* on behalf of the Biotechnology Industry Organization and the Bay Area Bioscience Center. Ms. Shetka received her JD from the University of Minnesota Law School, where she was Editor-in-Chief of the *Journal of Law & Inequality*.

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 chaired the firm's Litigation Division from 2002-08. He served as Minnesota Chief Deputy Attorney General (1974-79) and Deputy Attorney General for the Minnesota Pollution Control Agency (1973-74). 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.

Martin Stillman, MD, JD, FACP, FCLM, is Senior Medical Director of the Medicine and Medicine Sub-Specialty Clinics at Hennepin County Medical Center (HCMC) where he practices general internal medicine. He is also Assistant Professor of Medicine at the University of Minnesota Medical School. He is both a Fellow and an Executive Board Member of the American College of Legal Medicine and is currently serving a second term as President of the Minnesota Medical Alumni Society. In 2010, he was awarded the University of Minnesota Outstanding Medical School Teaching Award. Dr. Stillman also consults for the University of California, San Francisco IPC Fellowship Program for Hospitalist Leaders and Free the Children Organization, assisting in clinic design for healthcare in rural Kenya. Dr. Stillman graduated from the University of Minnesota Law School in 1993 and the University of Minnesota Medical School in 1997.

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. Her practice involves organizational structure and other issues affecting non-profit, professional, and business organizations in health care. Ms. Struthers has also written and lectured extensively on a variety of health care, third-party payment, tax exemption, and other nonprofit organization issues. 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.

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. Mr. Thompson chairs Lindquist & Vennum's Life Sciences Group and serves on the Board of Directors of LifeScience Alley. He has more than 30 years of experience as a lawyer and international business executive in the Twin Cities and in New York, Boston, and India. Before joining Lindquist & Vennum, he served as Vice President and General Counsel of Novartis Institutes for BioMedical Research, Inc., in Cambridge, MA, and prior to that as President of Novartis India in Mumbai. He earned an LLM at New York University School of Law and received his JD from the University of Oregon School of Law.

Judith Walker, JD, is Vice President of Regulatory Affairs, Chief Ethics and Compliance Officer, and Privacy Officer for Blue Cross and Blue Shield of Minnesota. She is accountable for providing leadership on regulatory compliance issues and for maintaining the company's privacy and compliance, and ethics programs. She has held several positions at Blue Cross since joining the company in 1989, most recently serving as Deputy General Counsel. Ms. Walker is an Adjunct Faculty Member at Hamline University School of Law and serves on the Advisory Board of Hamline's Health Law Institute. Ms. Walker received her undergraduate degree from St. Mary's University in Winona, MN and her law degree from Hamline University School of Law.



Paul Savereide, JD, PhD



Byron E. Starns, JD



Martin Stillman, JD, MD



Margo S. Struthers, JD

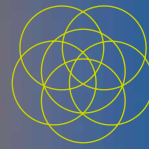


Robert L. Thompson, JD, LLM



Judith Walker, JD

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

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



Profs. Brad Karkkainen, JD (University of Minnesota); Katherine Klink, PhD (University of Minnesota); Daniel Bodansky, JD (Arizona State University); Hari Osofsky, JD (University of Minnesota); and Stephen Polasky, PhD (University of Minnesota) at the 2010-11 Lecture Series on Law, Health & the Life Sciences.

Audience members at the May 19 conference on "Should We Return Individual Research Results and Incidental Findings from Genomic Biobanks & Archives?"

2010-11 Events & Co-Sponsored Activities

Prof. Daniel Farber, JD (University of California, Berkeley) at the Lecture Series on Law, Health & the Life Sciences.



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 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.

JDP student Pari McGarraugh (JD, MPH candidate in Public Health Administration & Policy) and JDP Advisory Board member Martha Brand, JD, at the Fall 2010 JDP Advisory Board Reception.



Annual Conference



Leslie G. Biesecker, PhD (NHGRI, NIH) presents a keynote address at the May 19 conference on “Should We Return Individual Research Results and Incidental Findings from Genomic Biobanks & Archives?”



Prof. Isaac Kohane, MD, PhD (Children's Hospital Boston and Harvard Medical School) delivers a keynote address at the May 19 conference on “Should We Return Individual Research Results and Incidental Findings from Genomic Biobanks & Archives?”

On May 19th, 2011 the University of Minnesota's Consortium on Law and Values in Health, Environment & the Life Sciences held our Annual Conference in Bethesda, MD on “**Should We Return Individual Research Results and Incidental Findings from Genomic Biobanks & Archives?**” This conference was supported by our National Institutes of Health's National Human Genome Research Institute (NIH, NHGRI) grant on “Managing Incidental Findings and Research Results in Genomic Biobanks and Archives.”

The conference presented recommendations and analysis on managing incidental findings and individual research results in genomic research using biobanks and archived datasets. In order to understand the genetic contribution to a host of diseases and conditions of great importance to public health, scientists are increasingly assembling large biobanks, archiving many individuals' DNA and health information for scientific reanalysis over time. This conference brought leading experts on bioethics, genomics, biobanking, and law to recommend policies and practices on return of both incidental findings and individual research results that may have importance for the donor.

The conference opened with an introductory address by **Kathy Hudson, PhD (National Institutes of Health)**

The morning session was divided into four sections. The first section, titled “**Keynotes: Genomic Biobanks & Archives Face the Problem of Incidental Findings and Return of Research Results,**” was moderated by Jeffrey P. Kahn, PhD, MPH (University of Minnesota), and presented by **Leslie G. Biesecker, MD (National Human Genome Research Institute, National Institutes of Health)** and **Isaac Kohane, MD, PhD (Children's Hospital Boston and Harvard Medical School)**.

Next, the conference focused on “**Managing Incidental Findings and Return of Research Results in Genomic Biobanks and Archives.**” This session, presenting our project's analysis and policy

recommendations, was led by Prof. Susan M. Wolf, JD (University of Minnesota), and included Jeffrey P. Kahn, PhD, MPH (University of Minnesota); Brian Van Ness, PhD (University of Minnesota); and Frances Lawrenz, PhD (University of Minnesota).

Frances Lawrenz, PhD (University of Minnesota), then presented “**Publicly Available Guidance on Managing Incidental Findings and Return of Research Results in Genomic Biobanks and Archives: Empirical Findings & Analysis.**”

The morning portion of the conference concluded with an invited panel of experts who provided their reaction to the policy recommendations. This section was moderated by Brian Van Ness, PhD (University of Minnesota), and included panelists **Laura Lyman Rodriguez, PhD (National Institutes of Health)**; **Nicole C. Lockhart, PhD (National Cancer Institute)**; **Marianna Bledsoe, MA (Department of Veterans Affairs)**; **Jerry Menikoff, MD, JD, MPP (Office for Human Research Protections, U.S. Dept. of Health and Human Services)**; and **P. Pearl O'Rourke, MD (Partners HealthCare System and Public Responsibility in Medicine and Research)**. The panel and investigators then took questions.

The afternoon sessions of the conference included two sets of concurrent workshops, with each workshop moderated by a project investigator.

“**Session A1: Biobank Structure and Governance: Coping with Incidental Findings & Return of Individual Research Results**” was moderated by Brian Van Ness, PhD (University of Minnesota), and included panelists **Scott Jewell, PhD (Van Andel Research Institute and International Society for Biological and Environmental Repositories)**, on “ISBER Perspectives on Biorepository Return of Results & Incidental Findings”; **Michael F. Christman, PhD (Coriell Institute for Medical Research)**, on “Return of Genetic Results in the Era of Personalized Medicine”; **William McGeeveran, JD (University of Minnesota)**, on “Impact of



Christopher O'Donnell, MD, MPH (National Heart, Lung, and Blood Institute, NIH and Harvard Medical School) was one of the panelists reacting to project recommendations at the conference on "Should We Return Individual Research Results and Incidental Findings from Genomic Biobanks & Archives?"



Robert C. Green, MD, MPH (Brigham and Women's Hospital and Harvard Medical School) waits to ask a question at the May 19 conference on "Should We Return Individual Research Results and Incidental Findings from Genomic Biobanks & Archives?"

Data Privacy Regulation on Incidental Findings and Return of Individual Results"; **Gloria Petersen, PhD (Mayo College of Medicine)**, on "Institutional Governance of Incidental Findings: The Mayo Clinic Experience"; and **Karen Maschke, PhD (The Hastings Center)** on "Retrofitting No-Results Biobanks and Biobanks in Development to Manage Individual Results and Incidental Findings."

"Session A2: What Findings and Results Should Be Returned and How?" was moderated by **Susan M. Wolf, JD (University of Minnesota)**. Panelists included **Bartha Knoppers, JD, PhD (McGill University and Genome Québec Innovation Centre)**, on "International Normative Perspectives on Return of Individual Results and Incidental Findings in Genomic Biobanks"; **Wendy Wolf, PhD (Children's Hospital Boston)**, on "Managing Incidental Findings and Individual Research Results in Genotype/Phenotype Research Using Electronic Medical Records"; **Ingrid Holm, MD, MPH (Children's Hospital of Boston)**, on "The Informed Cohort Oversight Board (ICOB): From Values to Architecture" (paper with Patrick Taylor, JD); **Ellen Wright Clayton, MD, JD (Vanderbilt University)**, on "Critique of Current Proposals for Addressing Return of Research Results & Incidental Findings"; **Isaac Kohane, MD, PhD (Children's Hospital Boston and Harvard Medical School)**, on "Quantifying and Managing the Incidentalome: How Many Incidental Findings Will Genomic Research Yield and With What Implications?"; and **Stephanie Malia Fullerton, DPhil (University of Washington School of Medicine)**, on "Offering Aggregate Results to Participants in Genomic Biobanks and Archives" (paper with Laura Beskow, MPH, PhD; Wylie Burke, MD, PhD; Richard R. Sharp, PhD).

"Session B1: Returning Findings from Secondary Research and Reanalysis: Current Practices, Issues & Policy Solutions" was moderated by **Leili Fatehi, JD (University of Minnesota)**. Panelists included **Joseph Thakuria, MD (Harvard University)**, on "Informed Consent, Biobanking, and Data Distribution in the Personal Genome Project"; **Amy McGuire, JD, PhD (Baylor College of Medicine)**, on "Ethical and Policy Considerations in Disclosing from Downstream Users"; and **Henry S. Richardson, JD, MPP, PhD (Georgetown University)**, and **Mildred K. Cho, PhD (Stanford University)**, on "Secondary Researchers' Duties to Return Incidental Findings and Individual Research Results: A Partial-Entrustment Account."

"Session B2: Engagement with Specific Populations on Management of Incidental Findings & Research Results in Genomic Biobanks & Archives" was moderated by **Jeffrey P. Kahn, PhD, MPH (University of Minnesota)**, and included panelists **Francine C. Gachupin, PhD, MPH (University of New Mexico)**, on "Engagement with American Indian/Alaska Native

Populations on Genomic Findings & Results"; **Alan R. Shuldiner, MD (University of Maryland)**, on "Addressing Incidental Findings and Return of Individual Research Results in Genetic Research Involving the Old Order Amish"; **Judy Illes, PhD (University of British Columbia)**, on "Individual or Community Consent? A Vexing Challenge for Incidental Findings"; **Benjamin S. Wilfond, MD (University of Washington School of Medicine)**, on "Pediatric Assent in Genetic Research: Addressing Incidental Findings and Individual Research Results"; and **Rebecca Fisher, MLIS**, on "A Closer Look Revisited: Are We Subjects or Are We Donors?"

"Session B3: Empirical Assessment and Outcomes of Returning IFs & IRRs, Including Stakeholder Preferences" was moderated by **Frances Lawrenz, PhD (University of Minnesota)**. Panelists included **Lisa Parker, PhD (University of Pittsburgh)**, on "Returning Individual Research Results: What Role Should People's Preferences Play?"; **Robert C. Green, MD, MPH (Brigham and Women's Hospital and Harvard Medical School)**, on "How Do Participants in a Genetics Disclosure Study Respond to the Return of Unexpected Results?"; **Joan A. Scott, MS, CGC (National Coalition for Health Professional Education in Genetics)**, on "Return of Research Results: What Do People Really Want and Why?"; **Barbara Koenig, PhD (Mayo College of Medicine)**, on "Patient Perspectives on Return of Results in Biorepositories for Life-Threatening Illness"; **Bonnie S. LeRoy, MS, CGC (University of Minnesota)**, on "Genetic Counseling: What is the Experience of Providing Test Results and the Lessons for Return of Research Results?"; and **Maira Keane, MA, CIP (University of Minnesota)**, on "The IRB Experience in Overseeing Return of Results and Incidental Findings."

"Reports from Concurrent Workshops & Next Steps" was moderated by **Susan M. Wolf, JD (University of Minnesota)**, and included panelists **Jeffrey P. Kahn, PhD, MPH (University of Minnesota)**; **Brian Van Ness, PhD (University of Minnesota)**; and **Frances Lawrenz, PhD (University of Minnesota)**.

This event was designated by the University of Minnesota's Office of the Vice President for Research to satisfy the Awareness/Discussion component of the Responsible Conduct of Research (RCR) Continuing Education requirement and provided 7.5 AMA PRA Category 1 Credits™ (CME).

On Monday, September 26, 2011 the Consortium will host an NHGRI/NIH grant-supported conference on "Nanodiagnostics and Nanotherapeutics: Building Research Ethics & Oversight."

For more information, visit www.lifesci.consortium.umn.edu/conferences/2011_nano



Prof. Frances Lawrenz, PhD (University of Minnesota) at the May 19 conference on "Should We Return Individual Research Results and Incidental Findings from Genomic Biobanks & Archives?"



Jerry Menikoff, MD, JD, MPP (Office for Human Research Protections, U.S. Department of Health & Human Services) at the May 19 conference on "Should We Return Individual Research Results and Incidental Findings from Genomic Biobanks & Archives?"



Pamela S. Krop, JD (St. Jude Medical), and R. Alta Charo, JD (University of Wisconsin, Madison and U.S. Food and Drug Administration) at the 2010-11 Deinard Memorial Lecture on Law & Medicine.

Profs. Alex Klass, JD (University of Minnesota); Daniel Farber, JD (University of California, Berkeley); Eric Sheppard, PhD, MA (University of Minnesota); and Hari Osofsky, JD (University of Minnesota) at the 2010-11 Lecture Series on Law, Health & the Life Sciences.

Laura Lyman Rodriguez, PhD (National Human Genome Research Institute, National Institutes of Health) at the May 19 conference on "Should We Return Individual Research Results and Incidental Findings from Genomic Biobanks & Archives?"

Lecture Series on Law, Health & the Life Sciences

The Consortium's Lecture Series has sponsored 2-3 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 2010-11 Lecture Series focused on **"From Climate Change to the Gulf Oil Spill: Law and Science in Times of Crisis."** Prof. Hari Osofsky, JD, Law School, and Associate Director of Law, Geography & Environment, Consortium on Law and Values in Health, Environment & the Life Sciences, spearheaded this year's Lecture Series.

Thursday, October 7, 2010



Prof. Daniel Farber, JD

Prof. Daniel Farber, JD, (University of California, Berkeley School of Law), spoke on **"Blue Bayou: The BP Deepwater Horizon Blowout and the Social and Environmental Erosion of the Louisiana Coast."** **Prof. Eric Sheppard, PhD, MA** (Geography, University of Minnesota) and **Prof. Alexandra B.**

Klass, JD (Law, University of Minnesota) provided commentary.

In his lecture, Prof. Farber argued that the Louisiana Coast was under grave threat from erosion, rising seas, and pollution even before the explosion on the British Petroleum Deepwater Horizon platform. Whole communities have vanished under rising water, and the livelihoods and communities of people who depend on fishing for income has been threatened. The oil spill was a critical blow to these struggling communities and to threatened coastal ecosystems. Prof. Farber urged that environmental law needs to take a more holistic view, integrating consideration of multiple environmental threats and linking communities with ecosystems.

Prof. Daniel Farber, JD, is the Sho Sato Professor of Law and Chair of the Energy and Resources Group at the University of California, Berkeley School of Law. He is also the Faculty Director of the Center for Law, Energy, and the Environment. Professor Farber serves on the editorial board of Foundation Press, and is a member of the American Academy of Arts and Sciences and of the American Law Institute. He is the editor of *Issues in Legal Scholarship*. Prof. Farber was a member of the University of Minnesota Law School faculty from 1981 to 2002. He was the McKnight Presidential Professor of Public Law. He has published over a dozen books, including *Judgment Calls: Politics and Principle in Constitutional Law* (Oxford University Press 2008); *Retained by the People: The 'Silent' Ninth Amendment and Rights They Don't Know They Have* (Basic Books 2007); and *Lincoln's Constitution* (University of Chicago Press 2003).

Wednesday, November 17, 2010



Prof. Daniel M. Bodansky, JD

Prof. Daniel M. Bodansky, JD, (Sandra Day O'Connor College of Law, Arizona State University), spoke on **"The International Climate Change Negotiations: The Road from Copenhagen."** **Prof. Hari Osofsky, JD** (Law, University of Minnesota), **Prof. Brad Karkkainen, JD** (Law, University

of Minnesota), and **Prof. Katherine Klink, PhD** (Geography, University of Minnesota) provided commentary.

In his lecture, Prof. Bodansky discussed the outcomes of the 2009 Copenhagen Climate Change Conference. He asked if it was a success or a failure and discussed the prospects of the UN climate change regime in the future. He asked if the December 2010 climate change conference would have more of an impact than the Copenhagen conference. He explored the chances for a new legal agreement on climate change, that could either supplement, or replace the Kyoto Protocol. Bodansky also discussed the past, present, and future of the international climate change negotiations.

Prof. Daniel Bodansky, JD, is the Lincoln Professor of Law, Ethics, and Sustainability at the Sandra Day O'Connor School of Law, Arizona State University. He is also an Affiliated Faculty member in both the College of Law's Center for Law and Global Affairs, and the School of Sustainability at ASU. His scholarship includes two books, 24 scholarly articles and book chapters, five book reviews and more than 40 papers and presentations. He is the recipient of a Council on Foreign Relations International Affairs Fellowship, a Pew Faculty Fellowship in International Affairs, and a Jean Monnet Fellowship from the European University Institute in Florence. He currently serves on the Board of Editors of the *American Journal of International Law* and is the U.S.-nominated arbitrator under the Antarctic Environment Protocol. He is also a member of the Council on Foreign Relations and the American Society of International Law.

The 2011-12 Lecture Series on Law, Health & the Life Sciences will focus on **"Food Safety: Coping with Domestic & International Challenges,"** featuring Prof. Robert Brackett, PhD (Illinois Institute of Technology), on "Question and Uncertainties on the Full Implementation of FSMA," Tuesday, February 28, 2012, and Prof. Jørgen Schlundt, PhD (Technical University of Denmark), on "Global Food Safety and Regulatory and Policy Challenges," on Wednesday, April 25, 2012. All lectures begin at 11:30 a.m. and conclude at 1:00 p.m. These events are free and open to the public. The Lecture Series will apply for 1.5 credits of Continuing Legal Education (CLE) credits for each lecture.

Videos from all of our lectures are available at www.lifesci.consortium.umn.edu/video

For more information, visit www.lifesci.consortium.umn.edu/lectures

Deinard Memorial Lecture Series on Law & Medicine

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

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



Prof. R. Alta Charo, JD, U.S. Food and Drug Administration and University of Wisconsin, Madison, presented the 2010-11 Deinard Memorial Lecture on **“New Technologies and Old Statutes: Challenges for 21st Century Food and Medical Product Regulation”** on **Wednesday, February 2, 2011**. Commentary was provided by Prof. Shaun Kennedy, BSE-ChE, University of Minnesota, and Pamela S. Krop, JD, St. Jude Medical.

Prof. Charo discussed how emerging technologies, especially those that offer dramatically increased control over nature, have certain features in common. In her lecture, Prof. Charo spoke of how science often moves rapidly and unpredictably. Methodologies for risk identification and assessment may not yet be developed, applications across many different product areas are in development simultaneously, and legal authorities designed for an earlier age may be a poor fit when it comes to defining, reviewing, and monitoring the use of these technologies in products ranging from eye shadow to food wrapping to chemotherapy agents. Her presentation described challenges and approaches in the design of a regulatory response that is as nimble and nuanced as the science behind the products it oversees.

R. Alta Charo, JD, is the Warren P. Knowles Professor of Law & Bioethics, University of Wisconsin Law School and School of Medicine & Public Health. Her government positions have included work as a Senior Advisor in the Office of the Commissioner at the U.S. Food and Drug Administration; Policy Analyst for the U.S. Agency for International Development; and Legal Analyst for the Congressional Office of Technology Assessment.

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 this and all the Deinard Memorial Lectures is available on our websites at www.lifesci.consortium.umn.edu/conferences/alta_charo_2011



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

On January 25, 2012 the **2011-12 Deinard Memorial Lecture in Law & Medicine** will feature **Ezekiel J. Emanuel, MD, PhD** (University of Pennsylvania), speaking on **“Health Care Reform.”** For more information, visit www.lifesci.consortium.umn.edu/conferences/deinard_series



Prof. R. Alta Charo, JD (University of Wisconsin, Madison and U.S. Food and Drug Administration); Shaun Kennedy, BSE-ChE (University of Minnesota); and Pamela Krop, JD (St. Jude's Medical) at the 2010-11 Deinard Memorial Lecture on Law & Medicine.

Recent Publications

In 2010-11, the Consortium published articles and symposia resulting from work on our grants, including:

“NIRT: Evaluating Oversight Models for Active Nanostructures and Nanosystems: Learning from Past Technologies in a Societal Context” (NSF grant #SES-0608791)

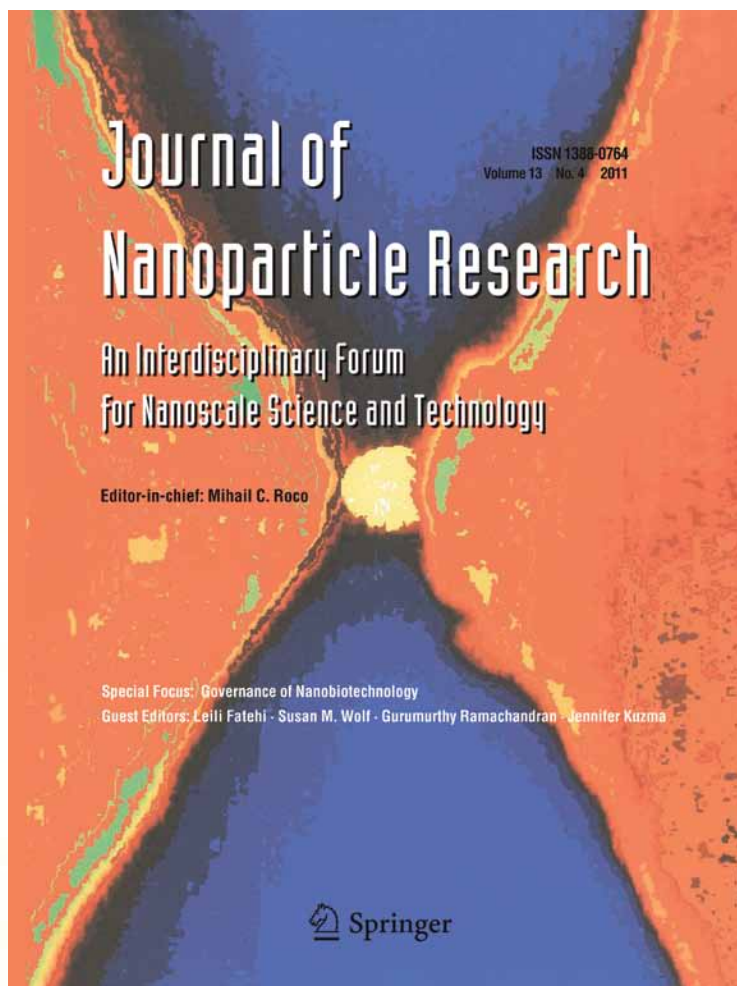
A project symposium on **“Special Focus: Governance of Nanobiotechnology”** was published in the *Journal of Nanoparticle Research* (April 2011). Symposium guest editors are Leili Fatehi, JD; Susan M. Wolf, JD; Gurumurthy Ramachandran, PhD; and Jennifer Kuzma, PhD.

Introduction

- Fatehi L, Wolf SM, Ramachandran G, Kuzma J. Introduction: Designing Nanobiotechnology Oversight. *Journal of Nanoparticle Research*. 2011;13(4):1341-43.
- Ramachandran G, Wolf SM, Paradise J, Kuzma J, Hall R. Recommendations for Oversight of Nanobiotechnology: Dynamic Oversight for Complex and Convergent Technology. *Journal of Nanoparticle Research*. 2011;13(4):1345-71.
- Wang J, Asbach C, Fissan H, Hülser T, Kuhlbusch TAJ et al. How Can Nanobiotechnology Oversight Advance Science and Industry? Examples From Environmental, Health and Safety Studies of Nanoparticles (Nano-EHS). *Journal of Nanoparticle Research*. 2011;13(4):1373-87.
- Marquis BJ, Maurer-Jones MA, Ersin ÖH, Lin YS, Haynes CL. The Bench Scientist's Perspective on the Unique Considerations in Nanoparticle Regulations. *Journal of Nanoparticle Research*. 2011;13(4):1389-1400.
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- Marchant GE, White A. An International Nanoscience Advisory Board to Improve and Harmonize Nanotechnology Oversight. *Journal of Nanoparticle Research*. 2011;13(4):1489-98.
- Kuzma J, Kuzhabekova A. Nanotechnology, Voluntary Oversight, and Corporate Social Performance: Does Company Size Matter? *Journal of Nanoparticle Research*. 2011;13(4):1499-1512.
- Hoerr RA. Regulatory Uncertainty and the Associated Business Risk for Emerging Technologies. *Journal of Nanoparticle Research*. 2011;13(4):1513-20.
- Priest SH, Greenhalgh T. Nanotechnology as an Experiment in Democracy: How Do Citizens Form Opinions About Technology and Policy? *Journal of Nanoparticle Research*. 2011;13(4):1521-31.
- Cobb MD. Creating Informed Public Opinion: Citizen Deliberation About Nanotechnologies for Human Enhancements. 2011;13(4):1533-48.
- Chittenden D. Commentary: Roles, Opportunities, and Challenges – Science Museums Engaging the Public in Emerging Science and Technology. *Journal of Nanoparticle Research*. 2011;13(4):1549-56.

“Managing Incidental Findings and Research Results in Genomic Biobanks and Archives” (NHGRI/NIH grant #2-R01-HG003178 and 1-R01-HG003178-01A1)

- A project symposium will be published in *Genetics in Medicine* (April 2012) from our grant on “Managing Incidental Findings and Research Results in Genomic Research Using Biobanks & Archives.”
- A project symposium will be published in the *Minnesota Journal of Law, Science & Technology* (Spring 2012) from our grant on “Managing Incidental Findings and Research Results in Genomic Research Using Biobanks & Archives.”
- Fabsitz RR, McGuire A, Sharp RR, Puggal M, Beskow LM, Biesecker LG, Bookman E, Burke W, Burchard EG, Church G, Clayton EW, Eckfeldt JH, Fernandez CV, Fisher R, Fullerton SM, Gabriel S, Gachupin F, James C, Jarvik GP, Kittles R, Leib JR, O'Donnell C, O'Rourke PP, Rodriguez LL, Schully SD, Shuldiner AR, Sze RK, Thakuria JV, Wolf SM, Burke GL. Ethical and Practical Guidelines for Reporting Genetic Research Results to Study Participants: Updated Guidelines from an NHLBI Working Group. *Circulation: Cardiovascular Genetics*. 2010;3(6):574-80.
- Orme NM, Fletcher JG, Siddiki HA, Harmsen WS, O'Byrne MM, Port JD, Tremaine WJ, Pitot HC, McFarland EG, Robinson ME, Koenig BA, King BF, Wolf SM. Incidental Findings in Imaging Research: Evaluating Incidence, Benefit, and Burden. *Archives of Internal Medicine*. 2010;170(17):1525-32.
- Wolf SM. Incidental Findings in Neuroscience Research: A Fundamental Challenge to the Structure of Bioethics and Health Law, in *Oxford Handbook of Neuroethics*. Judy Illes, Barbara Sahakian, eds., Oxford University Press, 2011.



The Consortium and Joint Degree Program also publish a range of program materials each year including a periodic electronic update, this report, program catalogs and brochures, and a variety of conference and promotional materials. To view or download publications, visit www.lifesci.consortium.umn.edu/publications

Minnesota Journal of Law, Science & Technology

In 2010-11, the *Minnesota Journal of Law, Science & Technology* published Volume 12 featuring articles, recent developments, and student Notes.

VOLUME 12, ISSUE 1:

ARTICLES

- "What's Wrong with Race-Based Medicine?: Genes, Drugs, and Health Disparities," by Dorothy E. Roberts
- "And Justice for All: An Alternative Decision to *Williams v. Nassau County Medical Center* to Ameliorate the Harsh Impact of New York's Late Notice of Claim Statute on Infant Medical Malpractice Plaintiffs," by David A. Mayer & Christopher McGrath
- "Bermuda's Legacy: Policy, Patents, and the Design of the Genome Commons," by Jorge L. Contreras
- "Ending the Invalidity Shell Game: Stabilizing the Application of the Written Description Requirement in Patent Litigation," by Aaron B. Rabinowitz
- "Accounting for the Costs of Electronic Discovery," by David Degnan
- "An End to Privacy Theater: Exposing and Discouraging Corporate Disclosure of User Data to the Government," by Christopher Soghoian
- "You're Doing It Wrong: How the Anti-Law School Scam Blogging Movement Can Shape the Legal Profession," by Lucille A. Jewel
- "Policy-Induced Competition: The Case of Cable TV Set-Top Boxes," by Ralitza A. Grigorova-Minchev & Thomas W. Hazlett

NOTES

- "Morally Hazardous Chemical Regulations: Why Effective Reform of the TSCA Requires Reduction of the Toxic Data Gap," by John Kvinge
- "Tempting the Sword of Damocles: Reimagining the Copyright/DMCA Framework in a UGC World," by Jordan Sundell
- "The ICS Three-Step: A Procedural Alternative for Section 230 of the Communications Decency Act and Derivative Liability in the Online Setting," by Eric Taubel

VOLUME 12, ISSUE 2:

ARTICLES

- "Global Pharmaceutical Linkage Regulations: A Consortium Framework," by Ronald A. Bouchard et al.
- "Four Questionable Rationales for the Patent Misuse Doctrine," by Thomas F. Cotter
- "The Work-Made-For-Hire Doctrine Revisted: Start-up and Technology Employees and the Use of Contracts in a Hiring Relationship," by John Garon & Elaine Ziff
- "You Are Too Soft!: What Can Corporate Responsibility Do For Climate Change?" by Issachar Rosen Zvi
- "Funding Race as Biology: The Relevance of 'Race' in Medical Research," by Taunya Banks
- "Food Advertising and Childhood Obesity: A Call to Action for Proactive Solutions," by Rosemary Termini, Thomas A. Roberto & Shelby G. Hostetter
- "It's an ART not a Science: State-Mandated Insurance Coverage of Assisted Reproductive Technologies and Legal Implications for Gay and Unmarried Persons," by Valarie Blake
- "Pluripotent Stem Cells: The Search for the 'Perfect' Source," by Nancy King, Christine Coughlin & Anthony Atala

RECENT DEVELOPMENTS

- "A Failure to Comply: An Initial Assessment of Gaps in IOM's Medical Device Study Committee," by Ralph F. Hall & Eva Stensvad

NOTES

- "FDA Goes Loko: Revisiting the Finality of the FDA Warning Letters," by Rebecca Boxhorn
- "Notes from the Underground: Hydraulic Fracturing in the Marcellus Shale," by Joseph Dammel
- "*AMP v. Myriad*: The Future of Medicine and Patent Law," by Peter Edwards
- "It's All Relative: Familial DNA Testing and the Fourth Amendment," by Amanda Pattock

Giving—How You Can Help

In these difficult economic times, we are more dependent than ever on gifts from our friends and alumni. 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.

Currently, the Joint Degree Program offers 23 degree combinations. We boasted 34 gifted students for 2010-11. The Consortium has expanded to 19 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, and the Law School's Robina Research Fund for Law, Public Policy & Society. We publish ground-breaking research findings and recommendations, including in the *Journal of Nanoparticle Research*, *Genetics in Medicine*, *Archives of Internal Medicine*, *Oxford Handbook of Neuroethics*, *Journal of Law, Medicine & Ethics*, and more. The *Minnesota Journal of Law, Science & Technology* continues to rise in the rankings as we publish top scholars writing on law, science, and technology. We have awarded over \$1 million in intramural grants to promote interdisciplinary research at the University of Minnesota.

We are grateful for the leadership and financial support provided by University of Minnesota's former President Robert H. Bruininks and Senior Vice President for Academic Affairs and Provost E. Thomas Sullivan, and we look forward to working with President Eric Kaler in the coming years.



As budgets tighten, the Consortium and Joint Degree Program's continued success and future strength depend on increased private investment. Gifts allow us to continue our unique programming, our groundbreaking research, our scholarship in law and the life sciences, and our student training.

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 the community we have built on law, values, and science.

In 2010-11 we received the largest private gift in our program's history from the **Donald and Phyllis Kahn Foundation**. Rep. Phyllis Kahn has been a member of the Joint Degree Program Advisory Board and a strong supporter of our unique law and science program since 2001. This gift establishes an endowed scholarship fund for JDP students called the **Kahn Scholarship in Law & Science** and it has been matched by the University's Presidential Scholarship Match Program. The JDP is extremely grateful to the Kahn Foundation for this generous gift, and to Phyllis Kahn for her many years of dedicated service to the Joint Degree Program in Law, Health & the Life Sciences.

We are also grateful for other gifts to the **Minnesota Journal of Law, Science & Technology**, the **two scholarship funds**, and the **Consortium Fund for Conferences and Lectures**. Contact Carol Rachac, MA, Associate Director, at (612) 625-3356, or e-mail crachac@umn.edu, with questions about giving.

For more information, visit
<http://www.lifesci.consortium.umn.edu/giving>

JDP Advisory Board members Kenneth Liebman, JD; Rep. Phyllis Kahn, PhD, MPA; and Martha Brand, JD, at the 2010 Fall Advisory Board Reception.

Acknowledgements of Support



Grants

“Nanodiagnostics and Nanotherapeutics: Building Research Ethics and Oversight”

Sponsor: National Human Genome Research Institute, National Institutes of Health (NHGRI, NIH) (2009-11)

Award #1-RC1-HG005338-01

Principal Investigator: Prof. Susan M. Wolf, JD

Co-Investigators: Profs. Jeffrey McCullough, MD; Ralph Hall, JD; and Jeffrey Kahn, PhD, MPH

http://projectreporter.nih.gov/project_info_details.cfm?aid=7944119&icde=0

“Managing Incidental Findings and Research Results in Genomic Biobanks and Archives”

Sponsor: National Human Genome Research Institute, National Institutes of Health (NHGRI, NIH) (2009-11)

Award #2-R01-HG003178

Principal Investigator: Prof. Susan M. Wolf, JD

Co-Investigators: Profs. Jeffrey Kahn, PhD, MPH; Frances Lawrenz, PhD; Brian Van Ness, PhD

http://projectreporter.nih.gov/project_info_details.cfm?aid=7938783&icde=0

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

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

Award #SES-0608791

Principal Investigator: Prof. Susan M. Wolf, JD

Co-Principal Investigators: Profs. Efrosini Kokkoli, PhD; Jennifer Kuzma, PhD; Jordan Paradise, JD; and Gurumurthy Ramachandran, PhD

<http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0608791>

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

Sponsor: Robina LaPPS Research Funding (2009-12)

Principal Investigator: Prof. Susan M. Wolf, JD

www.law.umn.edu/news/robina-grant-12-16-2008.html

The *Minnesota Journal of Law, Science & Technology* thanks donors for their contributions. Donors are listed on page 15 of this publication. For more information, visit www.mjlst.umn.edu/support

For more information on support and giving, visit
www.lifesci.consortium.umn.edu

2010-11

The Consortium and Joint Degree Program are deeply grateful for 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 everyone 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**

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

- Senior Vice President for Academic Affairs and Provost **E. Thomas Sullivan**
- Vice President for Health Sciences and Dean of the Medical School **Aaron Friedman**
- Former Senior Vice President **Frank Cerra**, Academic Health Center
- The Provost's Interdisciplinary Team
- Vice Provost and Dean of Graduate Education **Henning Schroeder**
- **Dean Robert Elde**, College of Biological Sciences
- **Dean John Finnegan**, School of Public Health
- **Dean Allen Levine**, College of Food, Agricultural and Natural Resource Sciences
- **Dean David Wippman**, Law School

We gratefully acknowledge the following targeted financial support:

- **Professor Amos Deinard, Jr., 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 **Donald and Phyllis Kahn Foundation** for the Kahn Scholarship in Law & Science
- Joint Degree Program Advisory Board Member **Kenneth Liebman**, JD (Faegre & Benson), for his gift to the *Minnesota Journal of Law, Science & Technology*
- Joint Degree Program Advisory Board Member **Margo Struthers**, JD (Oppenheimer Wolff & Donnelly LLP), for her contribution to the Joint Degree Program Scholarship Fund
- Joint Degree Program Advisory Board Member **Ruth Mickelsen**, JD, MPH, MA, for her contribution to the Joint Degree Program Scholarship Fund
- Joint Degree Program Advisory Board Member **Winthrop Rockwell**, JD (Faegre & Benson), for his gift to the Joint Degree Program Scholarship Fund
- **Professor Susan M. Wolf, JD**, for creating the Wolf Scholarship for Joint Degree Program students

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Consortium and Joint Degree Program Staff:

Audrey Boyle is the Project Manager for the Joint Degree Program and Consortium, responsible for managing external and intramural grants, coordinating conferences, daily financial management, and annual budgeting. Audrey's previous work experience has primarily been in health care administration, including 13 years at Hennepin County Medical Center and Hennepin Faculty Associates. She attended Western Michigan University and the University of Arizona.

Carrie Coslin, MPP, is the Student Support & Grant Specialist. Prior to joining the Consortium and JDP, Carrie worked as a Principal Office and Executive Specialist for the University of Minnesota's Institute on Community Integration. Carrie holds a BA in Global Studies and an MPP from the Humphrey School at the University of Minnesota.

Brittney Crock, JD, was the Research Associate for the Consortium on Law and Values for 2010-11. She earned her JD from the University of Minnesota in 2010.

David Hanbury, MFA, joined the Consortium and Joint Degree Program as the Program Assistant in June 2009. Prior to coming to the Consortium, David worked as an Executive Assistant with Ameriprise Financial and American Express. He holds a BA from the University of Massachusetts and an MFA from Brown University.

Cortney Jones, JD, is the Research Associate for the Consortium on Law and Values. During Law School, she worked as a Research Assistant for Professor Susan Wolf. She began her position as the Consortium's Research Associate in August 2011. She received her JD from the University of Minnesota in 2011 and her BS from Northwestern University in 2008.

Sue Minor is the Consortium's Information Technology Professional. She began working with the Consortium in August 2007. Sue is also an American 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. Her duties include coordination of student admissions, student advising, program administration, budget management, strategic planning, and development. Carol has extensive experience in academic administration at the University of Minnesota, including 8 years in the Department of Sociology and 10 years in the Carlson School of Management. She holds a BA in Political Science and an MA in Higher Education Administration from the University of Minnesota.

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*. She manages communications for the Consortium and Joint Degree Program and production of the *MJLST*. She attended the University of Minnesota.

The Joint Degree Program and Consortium are indebted to the following Research Assistants in 2010-11: Heather Bemmels (Educational Psychology); Rebecca Boxhorn (Law); Grace Deason (Psychology); Michael Etheridge (Mechanical & Biomedical Engineering); Laura Fleege, MPH (School of Public Health); Gina Johnson, PhD (Educational Psychology); Cortney Jones (Law); Christian Krautkramer, MPH (Law); Pari McGarraugh (Law); Andrea Mosher, JD (Bioethics); Michael Schubert (Law); Eva Stensvad, MD (Law); and Mao Thao (Educational Psychology).

For more information on Consortium staff, visit
www.lifesci.consortium.umn.edu/contact

Looking Forward: 2011-12

In 2011-12 we will host a national conference in addition to the Lecture Series on Law, Health & the Life Sciences and the Deinard Memorial Lecture on Law & Medicine. These events bring top experts in law and the life sciences to the University of Minnesota campus. In addition to our events, we will continue to publish our original research, with forthcoming symposia in *Genetics in Medicine* and the *Minnesota Journal of Law, Science & Technology (MJLST)*. *MJLST* will publish Volume 13, and we will again offer Consortium intramural grants.



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ROBERT BRACKETT, PHD
Illinois Institute of Technology



JØRGEN SCHLUNDT, PHD
Technical University of Denmark



Upcoming Events: 2011-12 2011-12 Conferences & Lectures

Conference

"Nanodiagnostics and Nanotherapeutics: Building Research Ethics & Oversight"

Date: Monday, September 26, 2011

Time: 8:30am-4:45pm

Location: Cowles Auditorium, Hubert H. Humphrey School of Public Affairs

For more information, visit

www.lifesci.consortium.umn.edu/conferences/2011_nano

Deinard Memorial Lecture on Law & Medicine

Ezekiel J. Emanuel, MD, PhD (University of Pennsylvania) on **"Health Care Reform"**

Date: Wednesday, January 25, 2012

Time: 11:30am-1:00pm

Location: Cowles Auditorium, Hubert H. Humphrey Center, University of Minnesota

For more information, visit

www.lifesci.consortium.umn.edu/conferences/ezekiel_emanuel_2012

Lecture Series on Law, Health & the Life Sciences

The Consortium and Joint Degree Program will present 2 lectures in this series on **"Food Safety: Coping with Domestic & International Challenges."**

The 2011-12 Lecture Series on Law, Health & the Life Sciences will be coordinated by Prof. Shaun Kennedy, BSE-ChE, Director of the National Center for Food Protection and Defense, University of Minnesota.

Prof. Robert Brackett, PhD (Illinois Institute of Technology)

"Question and Uncertainties on the Full Implementation of FSMA"

Date: Tuesday, February 28, 2012

Time: 11:30am -1:00pm

Location: Cowles Auditorium, Hubert H. Humphrey Center, University of Minnesota

Jørgen Schlundt, PhD (Technical University of Denmark)

"Global Food Safety Regulatory and Policy Challenges"

Date: Wednesday, April 25, 2012

Time: 11:30am-1:00pm

Location: St. Paul Student Center Theater, University of Minnesota

For more information, visit www.lifesci.consortium.umn.edu/lectures

Forthcoming Publications

Symposium to be published in *Genetics in Medicine* (forthcoming 2012) on **"Managing Incidental Findings and Research Results in Genomic Research Using Biobanks & Archives."**

Symposium to be published in the *Minnesota Journal of Law, Science & Technology* (forthcoming 2012) on **"Managing Incidental Findings and Research Results in Genomic Research Using Biobanks & Archives."**

Minnesota Journal of Law Science & Technology

MJLST, Volume 13, Issue 1 will publish select articles from:

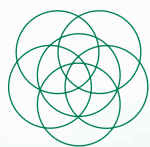
- Efthimios Parasidis (St. Louis University School of Law) on **"The Essence of Being Human"**
- Daniel A. Farber (University of California, Berkeley School of Law) on **"The BP Blowout and the Social and Environmental Erosion of the Louisiana Coast"**
- R. Alta Charo (University of Wisconsin-Madison) on **"New Technologies and Old Statutes: Challenges for 21st Century Food and Medical Product Regulation"**
- Liza Vertinski (Emory University) on **"Making Patent Policy Work in an Imperfect World: A New Organizational Approach to Patent Policy Design"**
- Eva Stensvad & Ralph F. Hall (University of Minnesota) on **"Left to Their Own Devices: IOM's Medical Device Committee's Failure to Comply"**

For more information on *MJLST*, visit www.mjlst.umn.edu

Consortium Intramural Grants

The Consortium will issue 2 Requests for Proposals (RFP) for competitive intramural grants in November 2011, with awards announced in March 2012.

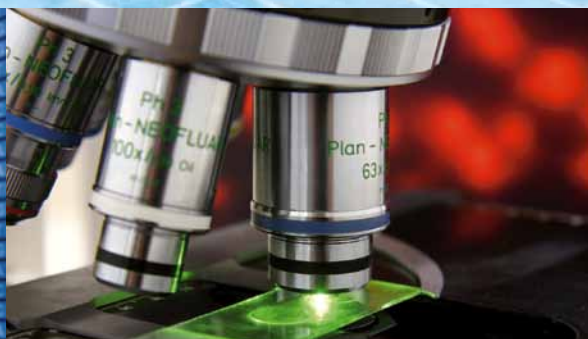
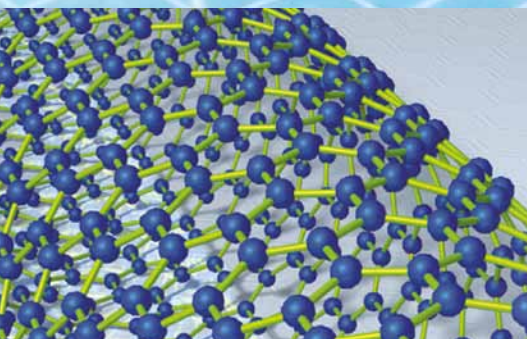
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Joint Degree Program
in Law, Health & the Life Sciences*

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2010-11

ANNUAL REPORT

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