

Annual Report
2003-2004

THE LAW SCHOOL
WALTER F. MONDALE
HALL

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

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

UNIVERSITY OF MINNESOTA

Highlights from 2003-2004:

- New Presidential Interdisciplinary Initiative
- *Minnesota Journal of Law, Science & Technology* to be launched
- 2 new degree combinations with Natural Resources Science and Management
- 2 new Consortium members
- Deinard Memorial Lecture Series on Law & Medicine inaugurated
- Visiting Scholar: Prof. William Sage, JD, MD
- Faegre & Benson Lecture Series on human subjects research
- Lunch Series on agricultural and environmental ethics
- Intellectual Property Rights symposium
- Children's Environmental Health conference
- 10 intramural grants awarded
- 25 JDP applicants
- 7 new JDP enrollees
- 1 more JDP graduate

2003–2004 Events

Monday, September 22, 2003

Lunch Series on the Societal Implications
of the Life Sciences

Prof. Dale Jamieson, Carleton College
“Science, Ethics, and the Animal
Protection Movement”

Wednesday, October 29, 2003

Faegre & Benson Lecture Series
on Law, Health & the Life Sciences

Prof. Jeremy Sugarman, Duke University
“Solutions to the Crisis in Human Subjects
Research: From Pillar to Post?”

Commentators: Profs. Jeffrey Kahn,
Cathy Jordan, University of Minnesota

Monday, November 17, 2003

Lunch Series on the Societal Implications
of the Life Sciences

Prof. David Ehrenfeld, Rutgers University
“Globalization and Biodiversity”

Wednesday, December 3, 2003

Faegre & Benson Lecture Series
on Law, Health & the Life Sciences

**Prof. Haavi Morreim,
University of Tennessee**
“Medical Devices: A Different Twist on the
Ethics and Law of Research Protections”

Commentators: Ken Liebman, Esq.,
Faegre & Benson, and Prof. Susan Foote,
University of Minnesota

Tuesday, February 10, 2004

Lunch Series on the Societal Implications
of the Life Sciences

Prof. Eric Freyfogle, University of Illinois
“Ecology, Ethics, and Private Land”

Thursday, February 26, 2004

Deinard Memorial Lecture on Law & Medicine

Prof. Troyen Brennan, Harvard University
“The Crisis in Patient Safety and
Malpractice: Fixing Medicine and Law”

Commentators: Prof. Roby Thompson,
University of Minnesota, and Dr. Carol Ley, 3M

Wednesday, March 10, 2004

Faegre & Benson Lecture Series
on Law, Health & the Life Sciences

**Dr. David Korn, Association
of American Medical Colleges**
“Financial Conflicts of Interest
in Biomedical Research”

Commentators: Profs. Norman Bowie,
David Hamilton, University of Minnesota

Friday, April 2, 2004

Annual Conference

**“Environmental Threats to Children’s
Health: Legal and Policy Challenges”**

Tuesday, April 13, 2004

Lunch Series on the Societal Implications
of the Life Sciences

Prof. Marion Nestle, New York University
“The Ironic Politics of Obesity”

Thursday, April 29, 2004

Annual Symposium

**“Intellectual Property Rights for the
Public Good: Obligations of U.S. Universities
to Developing Countries”**

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

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*Audience at Prof. Eric Freyfogle's
Lunch Series lecture.*



*Dr. Ronald Cantrell,
Director General of the International
Rice Research Institute,
speaks at the symposium
on intellectual property rights.*



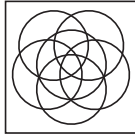
*Prof. J. Routt Reigart, Medical University
of South Carolina, and Prof. Peter
Nathanielsz, New York University Medical
School, conversing during a break at the
"Environmental Threats to Children's
Health" conference.*

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*Consortium on Law and Values in Health, Environment
& the Life Sciences and Joint Degree Program in Law,
Health & the Life Sciences, University of Minnesota.*

*Photography by Tim Rummelhoff, Daniel Kieffer,
Terence Brashear, Suzanne Livingston, and Tom Foley.*





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

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

Letter from the Director and Chair

Dear Colleagues:

The Consortium on Law and Values in Health, Environment & the Life Sciences was profoundly honored to be named one of 8 new Presidential Interdisciplinary Initiatives this year. The President's increased commitment to the Consortium allows us to expand our work and move to the next level of excellence. Through the Presidential Initiative, we will take on the following projects in the coming year:

- launching the *Minnesota Journal of Law, Science & Technology*, a peer-reviewed multidisciplinary journal edited by University of Minnesota faculty and Law students;
- bringing a Visiting Senior Scholar to campus for one semester each year to teach and share ideas on the societal implications of the life sciences;
- increasing the capacity to seek and manage externally funded grants;
- directly supporting work on the implications of the life sciences by Consortium member centers or graduate/professional programs participating in the Joint Degree Program; and
- continuing all programming and events, bringing to campus eminent scholars and national leaders in these fields.

Both the Consortium and Joint Degree Program saw continued success in 2003-04. The Consortium added 2 member centers in 2003-04: Prof. Mary Jo Kreitzer's Center for Spirituality and Healing and Profs. James Anderson's and Deborah Swackhamer's Water Resources Center. Our new Executive Committee allowed us to take better advantage of Consortium and Joint Degree Program expertise by broadening leadership of our intellectual work. We also hosted our first visiting scholar, Prof. William Sage from Columbia University. We submitted 3 grant proposals, while working on an NIH grant on the implications of haplotype mapping of the human genome for social categories of race and ethnicity.

The Joint Degree Program welcomed 7 new students in Fall 2003 and will welcome 6 more in Fall 2004 for a total of 22 students. We added a JD/MS and JD/PhD with the graduate program in Natural Resources Science & Management. We now offer 21 degree combinations and a choice of 3 graduate minors: Bioethics, Human Genetics, and Bioinformatics.

Our programming made dramatic advances as well. In 2003-04 we presented a spectacular roster of speakers on challenges in human subjects research in our Faegre & Benson Lecture Series on Law, Health & the Life Sciences. Our Lunch Series on the Societal Implications of the Life Sciences focused on agricultural and environmental ethics. We also offered a national conference on "Environmental Threats to Children's Health: Legal and Policy Challenges." Our annual symposium was a full-day event on "Intellectual Property Rights for the Public Good: Obligations of U.S. Universities to Developing Countries." And with the Center for Bioethics, we launched the new Deinard Memorial Lecture Series on Law & Medicine. We are particularly proud that our programming is now yielding scholarly publications, including published symposia from both the conference and full-day symposium.

In 2004-05 we will again present 10 events: 3 presentations in the Lecture Series addressing genomics, stem cell research, and biotechnology; 4 presentations in the Lunch Series focusing on medical devices and innovation; a conference on science and politics; an open-source symposium; and a second Deinard Memorial Lecture on Law & Medicine.

The Consortium and Joint Degree Program are now well established. Both programs enjoy a national reputation. Thanks to Presidential Initiative funding, we are moving to a new level of productivity. Our excitement is tremendous as we tackle what remain the most challenging issues of our time, those issues at the intersection, of law, ethics, policy, and the life sciences.



Prof. Susan Wolf, Director and Chair.



Prof. Jim Chen, Director of Special Projects.



Prof. Colin Campbell, Associate Director.

Susan M. Wolf

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



Update on the Joint Degree Program and Consortium

The Joint Degree Program

In 2003-04, the Joint Degree Program graduated another student, added JD/MS and JD/PhD options with the Graduate Program in Natural Resources Science & Management, and launched the Deinard Memorial Lecture Series on Law & Medicine with the Center for Bioethics. The Joint Degree Program and Consortium together sponsored 9 additional events: 4 lectures in the Lunch Series on the Societal Implication of the Life Science focusing on environmental and agricultural ethics; 3 lectures in the Faegre & Benson Lecture Series on Law, Health & the Life Sciences focusing on challenges in human subjects research; a national conference on **"Environmental Threats to Children's Health: Legal and Policy Challenges,"** and a symposium on **"Intellectual Property Rights for the Public Good: Obligations of U.S. Universities to Developing Countries."** Both the conference and the symposium were featured as part of the University of Minnesota President's 21st Century Interdisciplinary Conference Series.

The Joint Degree Program remains unique in the nation and now enables students to combine a JD with a PhD, MS, MPH, or MD in one of 13 graduate and professional programs in less time, with more academic support, and with potentially more financial support than if the students were to pursue the 2 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 13 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**
- a JD with an MS or PhD in **Pharmacology**
- a JD with an MS in **Science, Technology, and Environmental Policy**
- a JD with an MD in **Medicine**
- a JD with an MS or PhD in **Health Services Research, Policy, and Administration**
- a JD with an MPH in **Public Health Administration**
- 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 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**



Audience at Prof. David Ehrenfeld's Lunch Series lecture.



Audience at Prof. Dale Jamieson's Lunch Series lecture.





Rep. Jean Wagenius participated in a panel discussion at the "Environmental Threats to Children's Health" conference.

The Consortium on Law and Values

In 2003-04, the Consortium on Law and Values in Health, Environment & the Life Sciences was named one of 8 Presidential Interdisciplinary Initiatives by University of Minnesota President Robert Bruininks. We added 2 member centers, the Center for Spirituality and Healing and the Water Resources Center. We began work on an NIH grant on the implications of haplotype mapping and submitted 2 new NIH grant applications. We created a new Executive Committee to facilitate the work of the Consortium and Joint Degree Program and spread the intellectual responsibility. Through its Request for Proposals (RFP) process, the Consortium awarded 4 faculty grants, 4 student grants, and 2 grants to centers, totaling \$62,550.

The Consortium now coordinates among and builds on the strengths of 16 University centers and programs, establishing a national identity for the University of Minnesota as a leading institution working on law and values 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 16 constituent programs are:

- **Joint Degree Program in Law, Health & the Life Sciences** led by Profs. Susan Wolf (law, medicine) and Colin Campbell (pharmacology);
- **Center for Bioethics** led by Prof. Jeffrey Kahn (medicine, philosophy, public health);
- **Biomedical Genomics Center** led by Profs. Ashley Haase (microbiology) and Vivek Kapur (veterinary pathobiology, microbiology);
- **Center for Microbial and Plant Genomics** led by Prof. Ronald Phillips (agronomy and plant genetics);
- **Stem Cell Institute** led by Prof. Catherine Verfaillie (medicine);
- **Institute of Human Genetics** led by Profs. Harry Orr (laboratory medicine, pathology) and Bonnie LeRoy (genetic counseling);
- **Genomics Planning and Coordinating Committee (GPCC)** led by Vice Provost and Interim Dean of the Graduate School Victor Bloomfield;
- **Center for Infectious Disease Research & Policy** led by Prof. Michael Osterholm (epidemiology) and Jill DeBoer;
- **Center for Animal Health & Food Safety** led by Prof. William Hueston (epidemiology, clinical and population sciences) and Shaun Kennedy;
- **Center for Neurobehavioral Development** led by Profs. Charles Nelson (child psychology, neuroscience, pediatrics, neurology, radiology, psychiatry) and Michael Georgieff (pediatrics, child psychology);
- **Center for Environment and Health Policy** led by Prof. William Toscano (environmental health);
- **Center for Plants and Human Health** led by Prof. Gary Gardner (horticultural science);
- **Program in Agricultural, Food, and Environmental Ethics** led by Prof. Dan Philippon (rhetoric) and Associate Dean Beverly Durgan (College of Agricultural, Food, and Environmental Sciences);
- **Center for Science, Technology, and Public Policy** led by Prof. Kenneth Keller (Humphrey Institute, chemical engineering and materials science) and Jennifer Kuzma;
- **Water Resources Center** led by Profs. James L. Anderson (soil, water, and climate) and Deborah Swackhamer (environmental health); and
- **Center for Spirituality and Healing** led by Prof. Mary Jo Kreitzer (nursing).



Profs. Susan Wolf, Consortium, and Dale Jamieson, Carleton College.





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

UNIVERSITY OF MINNESOTA

Students, Recruitment, and Scholarships

The Joint Degree Program graduated 1 student in 2004. Melanie Kleiss received a JD and MS in Science, Technology & Environmental Policy. After completing a spring internship at Earthjustice in Seattle, she will clerk for U.S. District Court Judge David S. Doty in Minneapolis.

In 2003-04, we had **17 students** pursuing the following degree combinations:

- JD/PhD in MCDB&G (Katherine Dick, Alex Galaitis)
- JD/PhD in Pharmacology (Jonathan Hareid, Lisbeth Robinson)
- JD/MS in Pharmacology (Glenna Gilbert, James Zak)
- JD/MS in Science, Technology, and Environmental Policy (Melanie Kleiss, Margaret Jacot, Nicola Kieves, Zeia Lomax, Samantha Tschida)
- JD/PhD in Conservation Biology (Collette Adkins Giese)
- JD/MPH in Public Health Administration (Jill Dabrowski, Erin Furlong)
- JD/MS in Health Services Research, Policy & Administration (Kelsey Brodsho, Rebekah Kent)
- JD/MPH in Epidemiology (Robert Berlin)

Kelsey Brodsho was awarded a Joint Degree Program scholarship in Fall 2003. Jill Dabrowski received the School of Public Health's annual JD/MPH scholarship. Nicola Kieves was awarded the Harold M. Fredrikson Memorial Scholarship in 2003-04, provided by the law firm of Fredrikson & Byron. Alex Galaitis was awarded a Law School non-resident tuition waiver, the 2003-04 Minnesota Intellectual Property Law Association scholarship in the Law School, and a 3M Fellowship in the Graduate School.

Applications to the Joint Degree Program for Fall 2004 again showed increased geographic diversity. We received 25 applications from students with undergraduate degrees from Harvard University, Cornell University, Vanderbilt University, Arizona State University, and many others. We are delighted to see the number of applicants and the geographic diversity increasing.

In the Fall of 2004 we are welcoming **7 more students** pursuing the following degree combinations: JD/MPH in Public Health Administration; JD/MS in Health Services Research, Policy & Administration; JD/MS in MCDB&G; JD/MS in Pharmacology; JD/MS in Science, Technology, and Environmental Policy; and our first JD/MPH in Community Health Education and JD/MS in Molecular Veterinary Biosciences. We have worked closely with the Joint Degree Program graduate programs to recruit these impressive applicants and arrange financial support.

Our incoming student seeking the JD/MS in MCDB&G has been awarded a scholarship from the Minnesota Intellectual Property Law Association plus a partial Joint Degree Program scholarship in the Law School.

Our incoming JD/MPH student in Public Health Administration has been awarded a partial Law School scholarship plus the Harold M. Fredrikson Memorial Scholarship for 2004-05. Our incoming student seeking the JD/MS in Health Services Research, Policy & Administration has been awarded a partial Joint Degree Program scholarship in the Law School. Our incoming student seeking the JD/MPH in Community Health Education has also been awarded a partial Joint Degree Program scholarship.

Joint Degree Program students are thus eligible for several targeted scholarships in addition to being eligible for the full range of Law School and Graduate School scholarships and support otherwise offered. We are working to expand even further the support available to our students.



Joint Degree Program student Kelsey Brodsho speaking with Prof. Pete and Bebe Magee, Dept. of Genetics, Cell Biology & Development, at the Fall 2003 Advisory Board reception.



Student Honors & Achievements

Students in the Joint Degree Program continue to excel in their studies. Below is a partial list of their accomplishments in 2003-04:



Collette Adkins Giese.

Collette Adkins Giese, JD/PhD in Conservation Biology, passed all preliminary exams for her doctoral program and served as a staff member for *Law & Inequality: A Journal of Theory & Practice* in 2003-04. She held an Environmental Law Fellowship at the law firm of Faegre & Benson in Summer 2004. She expects to graduate in May 2005.

Erin Furlong, JD/MPH in Public Health Administration, held an Executive Pathways Internship at the Minnesota Department of Human Services in Spring 2004, working in the Continuing Care for the Elderly and Aging Divisions. She earned honors for her participation on the University of Minnesota Law School's 2003-04 Maynard Pirsig Moot Court. In Summer 2004, she continued working at the Department of Human Services, serving as a Management Analyst working on long-term care financing reform.



Erin Furlong.

Glenna Gilbert, JD/MS in Pharmacology, was a Managing Editor for the *Minnesota Intellectual Property Review* in 2003-04. Her article on "*Bayer AG v. Schein Pharmaceuticals, Inc.: A Pharmaceutical Company's Victory in Securing a Patent Monopoly over Ciprofloxacin*" was published in the Fall 2003 (volume 5, number 1) issue of the *Minnesota Intellectual Property Review*. She was a 2004 Summer Associate at the law firm of Schiff Hardin in Chicago and expects to graduate in May 2005.

Margaret Jacot, JD/MS in Science, Technology & Environmental Policy, held a summer internship at the University of Minnesota's Office of the General Counsel.

Rebekah Kent, JD/MS in Health Services Research, Policy & Administration, held an internship at the Minneapolis law firm of Halleland Lewis Nilan Sipkins & Johnson in 2003-04. In Summer 2004 she continued to work at Halleland as a Consultant. Her article on "*Comparison of ANA and AMA Professional Values and PAC Donations*," co-authored with Prof. Joan Liaschenko of the Center for Bioethics, was accepted by the *Journal of Policy, Politics, and Nursing Practice*, and will be published in Fall 2004.



Glenna Gilbert.

Melanie Kleiss, JD/MS in Science, Technology & Environmental Policy, was a Note & Comment Editor for the *Minnesota Law Review* in 2003-04. In Spring 2004, she interned with Earthjustice in Seattle and will clerk for U.S. District Court Judge David S. Doty beginning in September 2004.

Lesli Rawles, JD/MS in Science, Technology & Environmental Policy, was a 2004 Summer Intern for the State of Minnesota's Bioscience Initiative and Department of Employment and Economic Development. Her work focused on bioscience industry in Minnesota. She also was Research Assistant to the Consortium and Joint Degree Program, researching events topics and speakers.

Lisbeth Robinson, JD/PhD in Pharmacology, won the 2004 Best Brief award in the University of Minnesota Law School's Maynard Pirsig Moot Court. Three judges ranked the briefs, unanimously selecting Ms. Robinson as the winner.

Samantha Tschida, JD/MS in Science, Technology & Environmental Policy, worked as Summer Associate for the law firm of Peters & Peters in Alexandria, MN. The firm specializes in environmental law.



Lisbeth Robinson.



Joint Degree Program Proseminar

The Joint Degree Program Proseminar is a course required of all Joint Degree Program students each Fall and open with permission of the instructors to other Law students with advanced degrees in health or the life sciences. Entitled "Law, Health & the Life Sciences: Joint Degree Program Proseminar," Law 6875 is a one-credit pass/fail seminar that meets Wednesdays over lunch and provides a supportive and collegial forum in which students can explore the interdisciplinary issues our Joint Degree Program addresses with faculty from the cooperating programs and beyond. Guest speakers meet with the group to explore the legal, ethical, and policy implications of their work. The roster of speakers changes every year.

In the Fall of 2003, the Proseminar was led by Prof. Susan Wolf, Prof. Colin Campbell, and Dr. Lisa Jones. The schedule featured:

- Prof. Susan Wolf on law, medicine, and bioethics
- Prof. Colin Campbell on the training of U.S. scientists
- Prof. Jeffrey Kahn on cutting-edge issues in human subjects research
- Prof. David Tilman on the science of biodiversity and its policy implications
- Ruth Mickelsen, Esq. (Vice President of Ethics and Compliance, Allina Hospitals and Clinics) and Nancy Feldman (CEO, UCare) on challenges in the managed care system and future implications
- Prof. Ronald Phillips on biotechnology, golden rice, and ethics
- Prof. Mark Paller on technology transfer
- Prof. Dan Kaufman on embryo stem cell research and policy issues
- Dr. Lisa Jones on corporate-sponsored academic research
- Prof. Jim Chen on the effect of informatics, biology, and law on ecology
- Prof. Will Hueston on the University of Minnesota's food system biosecurity project
- Prof. Judith Garrard on the social implications of pharmacoepidemiology research
- Prof. Laura Ranum on human genetics and gene mapping

In 2004-05, the Proseminar will be divided into 2 sections. The first section will follow the current format: brief weekly presentations made by faculty drawn from graduate and professional programs affiliated with the Joint Degree Program, followed by discussion led by students. The first section will be required for students with less than 2 semesters of experience in the Proseminar and open to non-Joint Degree Program students by consent of the instructor if space permits. In the second, more advanced section, Joint Degree Program students themselves will make the bulk of the presentations to their peers. Section 2 will be comprised of Joint Degree Program students who have already completed 2 or more semesters of Proseminar. Each student will be responsible for making one presentation per term. Students will be given broad latitude in choosing topics to present. Options include: results from their own research (either lab- or literature-based), a published article, or an overview of a developing topic within their general field of study. This 2-section format was designed to meet the needs of all Joint Degree Program students and to prepare advanced students to meet the challenges ahead.



Prof. Susan Wolf at the Proseminar.



*Bekah Kent and Katie Dick
in discussion during Proseminar.*



Joint Degree Program Faculty + Governing Committee

The Joint Degree Program

The Joint Degree Program is run by a faculty Director and Associate Director with the help of a Governing Committee comprised mainly of the Director of Graduate Studies (DGS) or equivalent in each cooperating program plus a Joint Degree Program student elected by his or her peers. The Fall 2003 student election resulted in a tie and both candidates were named to the Governing Committee.



L to R: Prof. John Adgate and Prof. J. Routt Reigart served on the panel following Prof. J. Routt Reigart's lecture at the conference on children's environmental health. Prof. Jim Chen moderated the panel.

Susan M. Wolf, JD, is 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 the founding Director of the University's Joint Degree Program and founding Chair of the University's Consortium on Law and Values in Health, Environment & the Life Sciences. Beginning in 2004-05 she will be Executive Editor of the *Minnesota Journal of Law, Science, & Technology*. She received her AB *summa cum laude* from Princeton University in 1975 and her JD from Yale Law School in 1980, with graduate work at Harvard University.

After clerking for a federal judge and practicing law for several years, in 1984 she became a National Endowment for the Humanities Fellow and then Associate for Law at The Hastings Center, a nonprofit research institute now in Garrison, NY, specializing in bioethics. She also taught law and medicine at New York University Law School for 6 years as an Adjunct Associate Professor. She was a Fellow in the Program in Ethics and the Professions at Harvard University in 1992-93, before joining the Minnesota faculty in the Fall of 1993.

Prof. Wolf is the author or coauthor of numerous articles and book chapters that have appeared in the *New England Journal of Medicine*, *Journal of the American Medical Association (JAMA)*, *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 is editor of *Feminism & Bioethics: Beyond Reproduction* (Oxford University Press, 1996) and directed the Hastings Center project that produced *Guidelines on the Termination of Life-Sustaining Treatment and the Care of the Dying* (Indiana University Press, 1987). She has served on advisory bodies for the American Bar Association (ABA), American Medical Association (AMA), and the American Society for Reproductive Medicine (ASRM), among others. She is a member of the Board of Directors of the American Society for Bioethics and Humanities (ASBH), a Fellow of The Hastings Center, and past chair of the Association of American Law Schools' (AALS) Section on Law, Medicine, and Health Care. She writes frequently on genetics, assisted reproduction, death and dying, women's health care, managed care, and other topics in health law and bioethics. Prof. Wolf's complete bibliography may be found at <http://www.law.umn.edu/FacultyProfiles/WolfS.htm>.

Colin R. Campbell, PhD, is Associate Professor and Director of Graduate Studies in the Department of Pharmacology at the University of Minnesota Medical School. He is Associate Director of the Joint Degree Program. Prof. Campbell is also co-Director of the University of Minnesota's Life Sciences Summer Undergraduate Research Program.

Prof. Campbell received his BS in Biology from Fairfield University in Connecticut in 1981, and his PhD in Biochemistry from Boston University in 1987. He pursued post-doctoral studies in molecular genetics at the University of Illinois at Chicago and the Albert Einstein College of Medicine in New York, where he was also appointed an Instructor of Molecular Genetics. Prof. Campbell joined the University of Minnesota Pharmacology faculty as an Assistant Professor in 1992, and was promoted to his current rank in 1998.

Prof. Campbell's laboratory focuses on the relationship between nuclear and mitochondrial DNA instability and human pathologies including cancer and aging. Their research has been published in the *Journal of Biological Chemistry*, *Molecular and Cellular Biology*, *Nucleic Acids Research*, and other journals, and has been presented at a numerous national and international scientific meetings. Prof. Campbell's research has most recently been funded by the National Institutes of Health, the American Heart Association, and the American Cancer Society. More information on his research and publications may be found at <http://www.pharmacology.med.umn.edu/staffcampbell.html>.



Jim Chen, JD, is the James L. Krusemark Professor of Law and Associate Dean for Faculty at the University of Minnesota Law School. He also serves as the Director of Special Projects for the Joint Degree Program and Consortium and is a member of the graduate faculty of the University of Minnesota's Conservation Biology Program. Prof. Chen is an editor of *Constitutional Commentary*, the University of Minnesota's faculty-edited journal on constitutional law, and the founding Faculty Editor-in-Chief of the *Minnesota Journal of Law, Science & Technology*.

A member of the Law School faculty since 1993, Prof. Chen teaches and writes in the areas of administrative law, agricultural law, constitutional law, economic regulation, environmental law, criminal law, food and drug law, industrial policy, and legislation. A prolific scholar, he has written several dozen scholarly articles reaching all corners of his teaching repertoire. Prof. Chen's complete bibliography may be found at www.law.umn.edu/FacultyProfiles/ChenJ.htm. Prof. Chen received his BA degree, *summa cum laude*, and his MA degree from Emory University. After studying as a Fulbright Scholar at the University of Iceland, he earned his JD degree, *magna cum laude*, from Harvard Law School, where he served as an Executive Editor of the *Harvard Law Review*. He clerked for Judge J. Michael Luttig of the United States Court of Appeals for the Fourth Circuit and for Justice Clarence Thomas of the Supreme Court of the United States.

Lisa M. Jones, PhD, served as Research Associate to the Joint Degree Program and Consortium in 2002-04. Dr. Jones's research focuses on the relationship between academic science and industry research. She holds a PhD in Educational Policy and Administration (Higher Education Policy) from the University of Minnesota. Prior to joining the Consortium and Joint Degree Program staff, she worked for 2 years as a Postdoctoral Fellow with the Postsecondary Education Policy Studies Center and the Center for Applied Research and Educational Improvement at the University of Minnesota. Dr. Jones also consults on the "Data-Sharing and Data-Withholding Among Trainees in Science" project based at Massachusetts General Hospital, Boston, MA. Her recent publications include "University-Industry Research Collaborations" (*The Encyclopedia of Education*, 2003); "Attitudes and Behaviors of Academic Scientists: Industry Relationships, Sharing, and Withholding" (*American Scientist*, 2002); and "Entrepreneurs, Secrecy, and Productivity" (*Journal of Technology Transfer*, 2001).

Governing Committee

In 2003-04 members of the Governing Committee were:

Francesca J. Cuthbert, PhD, is a Professor in the Department of Fisheries & Wildlife and co-Director of Graduate Studies for the Conservation Biology Program. Her research interests include conservation and biology of birds focusing on colonial waterbirds and shorebirds, recovery of endangered populations using an ecosystem perspective. She received her doctorate at the University of Minnesota.

Bryan E. Dowd, MS, PhD, is Professor and Director of Graduate Studies in the Division of Health Services Research & Policy in the School of Public Health. His primary research interests are markets for health insurance and health care services and the evaluation of non-experimental data. Recently he has directed studies of biased selection, health plan choice, and employers' health insurance purchasing strategies. He received his PhD in Public Policy Analysis from the University of Pennsylvania and an MS from Georgia State University. He teaches health services research methods in the doctoral and master's programs in the Division.

Nancy Eustis, MA, PhD, is Professor and Director of Graduate Studies in the Hubert H. Humphrey Institute of Public Affairs. She also serves on the University's gerontology faculty and is affiliated with the University's Department of Sociology and School of Public Health. She has a particular interest in health care and personal assistance services for older people and people with disabilities. Her research focuses on consumer-directed long-term services and quality and cost-effectiveness of in-home and nursing home care. She also has studied health services planning. She earned a doctorate and a master of arts degree in Sociology from the University of Minnesota.



Dr. Lisa Jones, Research Associate to the Consortium, at the "Environmental Threats to Children's Health" conference.



Medical School Deans Greg Vercellotti and Helene Horwitz with Prof. Susan Wolf at the Fall 2003 Advisory Board reception.





*Prof. Robert Bullard,
Clark Atlanta University,
speaks with an audience member
at the annual conference.*

John R. Finnegan, Jr., PhD, was Professor and Associate Dean for Academic Affairs in the School of Public Health in 2003-04. Beginning in 2004-05, he is Interim Dean of the School of Public Health. He represents the 5 MPH programs and the School of Public Health on the Governing Committee. His primary research interests are community campaigns, health communication, and mass communication and public health. His recent research projects have involved serving as Principal Investigator of a study examining the role of media in smoking and tobacco outcomes, the REACT Study, a community intervention to reduce patient delay in seeking care for heart attack, and also as Principal Investigator of a CDC-funded Public Health Training Center. He recently served as Chair of the Health Communication Division of the International Communication Association. He received his PhD in Mass Communication from the University of Minnesota.

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

Helene Horwitz, PhD, is the Associate Dean for Student Affairs in the Medical School. Dean Horwitz oversees student services, student counseling including academic and career counseling, the residency application process, coordination of dual and joint degree programs, and related matters. She worked as an academic advisor and career counselor for several years before completing her PhD in Higher Education, with an emphasis on Academic Administration and Planning, at Southern Illinois University. Dean Horwitz has served as chair of the Central Region Group on Student Affairs of the Association of American Medical Colleges (AAMC), and as a member of the national Committee on Student Affairs of the AAMC.

Jeffrey P. Kahn, PhD, MPH, holds the Maas Family Chair in Bioethics and is Director of the University of Minnesota's Center for Bioethics. He is also Professor in the Medical School's Department of Medicine and holds graduate faculty appointments in the School of Public Health and Department of Philosophy. Prof. Kahn works in a variety of areas of bioethics including research ethics, ethics and genetics, ethics and organ transplantation, and ethical issues in public health. In addition to numerous scholarly publications, he wrote the bi-weekly column "Ethics Matters" on CNN.com from 1998-2002. During 1994-95, he was Associate Director of the White House Advisory Committee on Human Radiation Experiments and continues to serve on numerous state and federal advisory panels. He earned his MPH at Johns Hopkins University and PhD in philosophy and bioethics at Georgetown University.

Kenneth H. Keller, PhD, is the Charles M. Denny, Jr. Professor of Science, Technology, and Public Policy in the Hubert H. Humphrey Institute of Public Affairs, where he directs the Center for Science, Technology and Public Policy. He also holds an appointment in the Department of Chemical Engineering and Materials Science. His current research examines the intersection of science and technology with international affairs. His recent writings have dealt with information technology and national sovereignty, the environment, the globalization of research and development, and policy issues in high-technology medicine. He has spent most of his career at the University of Minnesota where he joined the faculty in 1964, became Vice President of Academic Affairs in 1980, and University President in 1985. From 1990 to 1996, he was Senior Fellow for science and technology at the Council on Foreign Relations and, for 2 of those years, the Council's Senior Vice President for Programs. He earned a master's degree and doctorate in Chemical Engineering from Johns Hopkins University.

Rebekah Kent began her Joint Degree Program studies in 2002. She is pursuing a JD and MS in Health Services Research, Policy and Administration. Her research focuses on the interaction between interest groups and health care policy and other issues relating to access to health care. For the 2003-04 school year, her peers elected her as their co-representative to the Joint Degree Program Governing Committee. In November 2002, she presented a paper on "Federal Campaign Donation Strategies of Health Professionals' Political Action Committees" at the American Public Health Association's annual conference. She participated in Michigan State University's Program on Medical Ethics and the History of Health Care in London in Summer 2003 and has worked as an intern at the Minneapolis law firm of Hallelund Lewis Nilan Sipkins & Johnson since September 2003. She graduated with honors from the University of Minnesota with a BA in Political Science and Psychology.

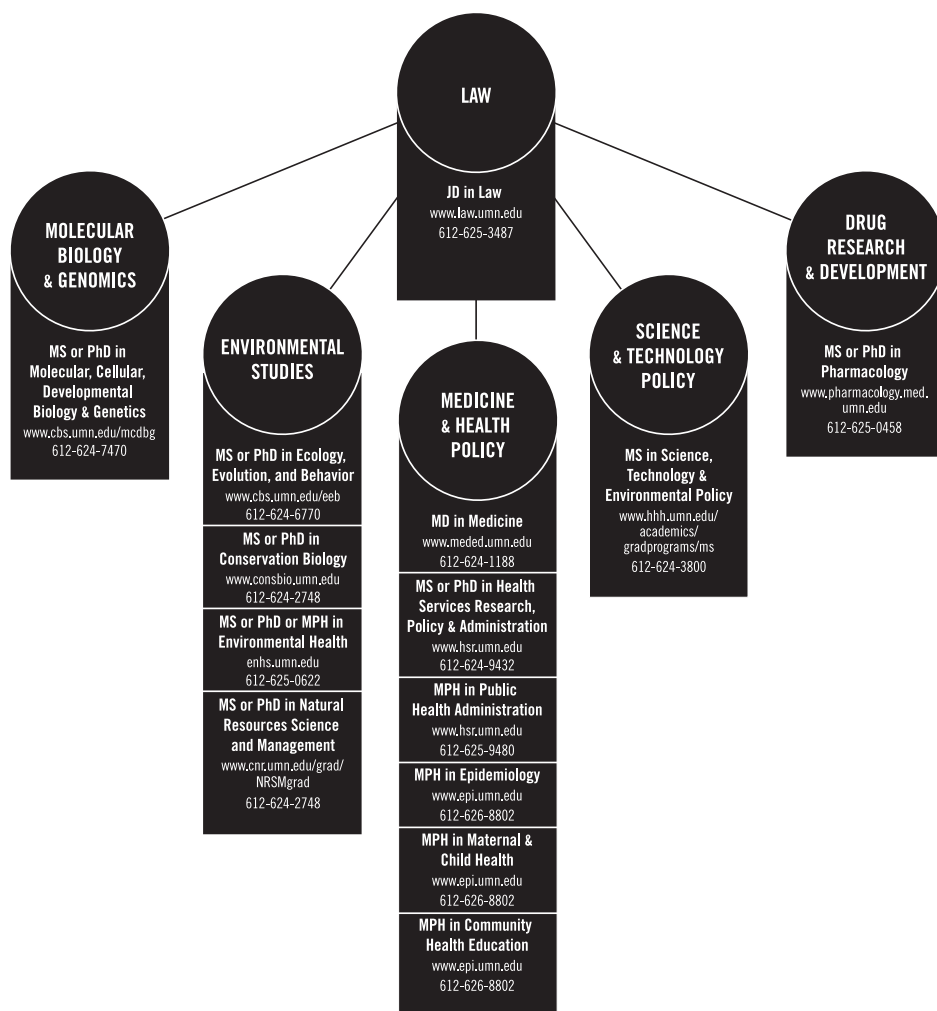


Melanie Kleiss, JD, MS, is a 2004 graduate of the Joint Degree Program with a JD and an MS in Science, Technology and Environmental Policy. Ms. Kleiss concentrated her studies on environmental policy, writing a thesis on the legal and policy issues surrounding hybrid and electric passenger vehicles. She was a Note & Comment Editor for the *Minnesota Law Review*, where her Note on *"NEPA and Scientific Uncertainty: Using the Precautionary Principle to Bridge the Gap"* was published in April 2003. For the 2003-04 school year, her peers elected her as their co-representative to the Joint Degree Program Governing Committee. Ms. Kleiss began her law studies in 2000 and her Humphrey Institute studies in 2001. She has held positions at the Law Offices of Stephan C. Volker (a public interest environmental law firm in Oakland, CA), the law firm of Faegre & Benson in Minneapolis, and the Minnesota Center for Environmental Advocacy. She was awarded a Judd Fellowship to study international environmental law at Humboldt University in Berlin in Spring 2003. She competed at the 2003 National Environmental Law Moot Court Competition in New York, where her team won Best Brief for Intervenors and she won Best Oralist in the preliminary round. In August 2004, Ms. Kleiss will begin a 2-year clerkship with U.S. District Court Judge David S. Doty in Minneapolis. She received her BA in Biology and German from the University of Minnesota at Morris.

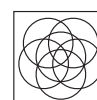
Meredith M. McQuaid, JD, was Associate Dean of Students and Director of International and Graduate Programs in the Law School until 2004. Beginning in 2004-05, she will be the Dean of Administration and International and Graduate Programs. She supervises the LLM program for foreign lawyers and oversees exchange programs for Law School students. She received her Linguistics degree and JD degree cum laude from the University of Minnesota. She currently serves on the University of Minnesota China Center Advisory Board.



Audience at the "Environmental Threats to Children's Health: Legal and Policy Challenges" conference.



Structure of the Joint Degree Program.





*Audience at Prof. Marion Nestle's
Lunch Series lecture on
"The Ironic Politics of Obesity."*



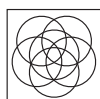
*Prof. Dan Philippon,
Program in Agricultural, Food,
and Environmental Ethics, introducing
Prof. Dale Jamieson at his
Lunch Series lecture.*

Claudia Neuhauser, PhD, is Professor, Head, and Director of Graduate Studies in the Department of Ecology, Evolution and Behavior. She is an applied mathematician. Her research interests are ecology and genetics, where she studies the role of local spatial interactions in community dynamics and how selection affects genealogies. These investigations are theoretical, relying on mathematical models, analytical methods, and partially on computer simulations. Prior to her appointment at the University of Minnesota, she held faculty appointments at the University of Southern California and the University of Wisconsin in Madison. She has also held a faculty appointment at the University of California, Davis. She received her master's degree at the University of Heidelberg, Germany, and her doctorate from Cornell University.

Sharon Reich Paulsen, JD, was Associate Dean for Administration, Legal Writing, Moot Court, and Trial Practice in the Law School until 2004. Beginning in Fall 2004, she will be Assistant Vice President and Chief of Staff in the Office of the Senior Vice President for Academic Affairs and Provost. Dean Paulsen has lectured inside and outside the University community on evidence, ethics, litigation, legal writing, and legal education issues. She received her BA *summa cum laude* from Yale University and her JD at Stanford Law School where she was Note Editor of the *Stanford Law Review*. After law school, she clerked for the Honorable Harlington Wood, Jr. of the U.S. Court of Appeals for the Seventh Circuit, and then worked at the U.S. Department of Justice, where she served as a trial attorney from 1984 through 1988. Dean Paulsen has served as member of the Committee on Bar Admissions and Lawyer Performance of the Association of American Law Schools, the Minnesota State Bar Association Task Force on the ABA Model Rules of Professional Conduct, and is currently a board member of the MacPhail Center for Music and the Loan Repayment Assistance Program of Minnesota. She is a past co-chair of the Women in the Legal Profession Committee of the Minnesota State Bar Association, and a former member of the Lawyers Professional Responsibility Board.

Margaret A. Titus, PhD, is Associate Professor in the Department of Genetics, Cell Biology, and Development and Director of Graduate Studies of the Graduate Program in Molecular, Cellular, Developmental Biology & Genetics. Her research laboratory focuses on cellular functions of unconventional myosins in both the simple eukaryote *Dictyostelium discoideum* and the nematode *Caenorhabditis elegans*. The studies are conducted through a combined approach that includes genetic, molecular genetic, cell biological, and biochemical techniques. Prof. Titus received her doctorate from Brandeis University.

Elizabeth V. Wattenberg, PhD, is Associate Professor and Director of Graduate Studies in the Division of Environmental Health Sciences 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 and function. Understanding this may help predict how environmental chemicals affect carcinogenesis and lead to methods for preventing and treating cancer. Prior to her appointment at the University of Minnesota, she worked at the Minnesota Department of Health on issues concerning health risk assessment and environmental regulation. She received her doctorate from the Massachusetts Institute of Technology.



Faculty Roster

Beyond the core faculty directly involved in Joint Degree Program governance, a larger roster were available to work with our students in 2003-04:

Law

Befort, Stephen F.
Burk, Dan L.
Burkhart, Ann M.
Chen, Jim
Cooper, Laura J.
Farber, Daniel A.
Gifford, Daniel J.
Grodsky, Jamie A.
Gross, Oren
Karkkainen, Brad
Marshall, Donald G.
McGowan, David
Morrison, Fred L.
Okediji, Ruth L.
Orfield, Myron W.
Wolf, Susan M.

Molecular, Cellular, Developmental Biology & Genetics (MCDB&G)

Ahrens, Mary Ellen J.
Baker, Janice A.
Baldinger, Shari R.
Bardwell, Vivian J.
Behrens, Timothy W.
Berman, Judith G.
Berry, Susan A.
Boland, Linda M.
Brambl, Robert M.
Brooker, Robert J.
Chen, Lihsia
Clarke, Duncan J.
Conklin, Kathleen F.
Conrad, Beth Ann
Couch, Vicki L.
Coucovanis, Electra C.
Ekker, Stephen C.
Elde, Robert P.
Fox, MaryAnn V.
Garza, Judy
Goldstein, Stuart F.
Gray, William M.
Gustin, Joy Ann
Hackett, Perry B.
Hamilton, David W.
Hatten, Bonnie A.
Hays, Tom S.
Herman, Robert K.
Hirsch, Betsy A.
Hogquist, Kristin A.
Iwanij, Victoria
Jameson, Stephen C.

Johnson, Ross G.
King, Richard A.
Kirkpatrick, David T.
Koepp, Deanna
Koob, Michael D.
Kuriyama, Ryoko
Largaespada, David A.
LeRoy, Bonnie S.
Lefebvre, Paul A.
Letourneau, Paul C.
Linck, Richard W.
Livingston, Dennis M.
Magee, Paul T.
Mariash, Cary N.
Marker, Paul C.
Marks, M. David
McCarthy, James B.
McIvor, R. Scott
McLoon, Steven C.
Mendelsohn, Nancy J.
Mescher, Matthew F.
Miller, Jeffrey R.
Moser, Kathy L.
Nelson, Katherine A.
Neufeld, Thomas P.
O'Connor, Michael B.
Olszewski, Neil E.
Orr, Harry T.
Petzel, Sue
Phillips, Ronald L.
Porter, Mary E.
Ranum, Laura P.
Roggenbuck, Jennifer A.
Rougvie, Ann E.
Rubin, Karol R.
Sanderfoot, Anton
Schimmenti, Lisa A.
Schottel, Janet L.
Selleck, Scott B.
Shaw, Jocelyn E.
Shawlot, William
Shimizu, Yoji
Silflow, Carolyn D.
Simmons, Michael J.
Simon, Jeffrey A.
Skubitz, Amy P.
Somia, Nikunj V.
Sorenson, Robert L.
Spear, Alysia B.
Steer, Clifford J.
Titus, Margaret A.
Towle, Howard
Van Ness, Brian G.

Verfaillie, Catherine M.
Vockley, Catherine W.
Whitley, Chester B.
Wick, Susan M.
Wright, Robin L.
Zarkower, David A.

Ecology, Evolution, and Behavior

Alstad, Donald N.
Andow, David
Barnwell, Franklin H.
Brezonik, Patrick L.
Cavender Bares, Jeannine M.
Cotner, James B.
Curtsinger, James W.
Cushing, Edward J.
Davis, Margaret
Dean, Antony M.
Finlay, Jacques C.
Frelich, Lee E.
Galatowitsch, Susan M.
Heimpel, George E.
Hobbie, Sarah E.
Jansa, Sharon A.
Johnson, Thomas C.
King, Jennifer Y.
Kinkel, Linda L.
Lanyon, Scott M.
Larson, Diane
Lehman, Clarence L.
May, Georgiana
McFadden, Joseph P.
Mech, L. David
Megard, Robert O.
Morrow, Patrice A.
Neuhauser, Claudia
Newman, Raymond M.
Oberhauser, Karen S.
Packer, Craig
Pastor, John J.
Polasky, Stephen
Pusey, Anne
Regal, Philip J.
Reich, Peter B.
Sadowsky, Michael J.
Shaw, Ruth G.
Simmons, Michael J.
Simons, Andrew
Sorensen, Peter W.
Starfield, Anthony M.
Stephens, David W.
Sturner, Robert W.

Stromberg, Bert E., Jr.
Strong, Ellen E.
Sugita, Shinya
Tiffin, Peter L.
Tilman, G. David
Weiblen, George D.
Weller, Susan J.
Zink, Robert M.

Conservation Biology

Adelman, Ira R.
Allan, Deborah L.
Alstad, Donald N.
Andersen, David E.
Anderson, Charles S.
Anderson, Dorothy H.
Andow, David
Ankley, Gerald T.
Arnold, Todd W.
Barnwell, Franklin H.
Bauer, Marvin E.
Bell, Jay
Bengston, David
Blair, Robert B.
Blinn, Charles R.
Bolstad, Paul V.
Bowyer, Jim L.
Broadbent, Jeffrey
Burk, Thomas E.
Cardwell, Vernon B.
Carey, Eileen V.
Chen, Jim
Coggins, Jay S.
Cohen, Yosef
Corbin, Kendall W.
Cunningham, William P.
Curtsinger, James W.
Cushing, Edward J.
Cuthbert, Francesca J.
Easter, K. William
El Halawani, Mohamed E.
Ellefson, Paul V.
Finlay, Jacques C.
Fiutak, Thomas R.
Frelich, Lee E.
Fulton, David C.
Galatowitsch, Susan M.
Garshelis, David L.
Giles-Vernick, Tamara L.
Grodsky, Jamie
Haight, Robert G.
Hatch, Jay T.
Hobbie, Sarah E.

Homans, Frances R.
Jannett, Frederick J.
Jansa, Sharon A.
Jordan, Nicholas R.
Jordan, Peter A.
Kapuscinski, Anne R.
Karanth, K Ullas
Kilgore, Mike
Klink, Katherine
Lang, Jeffrey W.
Lanyon, Scott M.
Larson, Diane
Lehman, Clarence L.
Loefering, John P.
Manson, Steven M.
Mc Master, Robert B.
Mech, L. David
Miller, Loren M.
Morrow, Patrice A.
Nagar, Richa
Nelson, Kristen C.
Neuhauser, Claudia
Newman, Raymond M.
Niemi, Gerald J.
Oberhauser, Karen S.
O'Brien, Stephen
Packer, Craig
Pereira, Donald L.
Perry, James A.
Philippon, Daniel J.
Polasky, Stephen
Pusey, Anne E.
Redig, Patrick T.
Regal, Philip J.
Reich, Peter B.
Renwick, Mary E.
Richards, Carl
Runge, C. Ford
Samatar, Abdi Ismail
Schneider, Ingrid E.
Shaw, Ruth G.
Simons, Andrew
Siniff, Donald B.
Smith, James L.
Snider, Anthony G.
Sorensen, Peter W.
Spangler, George R.
Squires, Roderick H.
Starfield, Anthony M.
Sturner, Robert W.
Strong, Ellen E.
Sugita, Shinya
Swain, Edward B.



Tilman, G. David
 Tilson, Ronald L.
 Vondracek, Bruce
 Western, David
 Ziegler, Susy S.
 Zink, Robert M.

Environmental Health

Adgate, John L.
 Alexander, Bruce H.
 Bender, Alan
 Boyle, Debora Jo
 Brosseau, Lisa M.
 Campbell, Colin R.
 Carpenter, Hillary M.
 Church, Timothy R.
 French, Lewis R.
 Gerberich, Susan G.
 Goyal, Sagar M.
 Greaves, Ian A.
 Hedberg, Craig W.
 Holtzman, Jordan L.
 Lungu, Claudiu T.
 Maldonado, George
 Mandel, Jeffrey H.
 McCullough, Nicole V.
 McGovern, Patricia M.
 Messing, Rita B.
 Nachreiner, Nancy M.
 O'Boyle, Carol Ann
 Olson, Debra K.
 Peterson, Lisa A.
 Ramachandran, Gurumurthy
 Raynor, Peter C.
 Roy, Robert R.
 Simcik, Matt F.
 Skoglund, Robert S.
 Smith, Kirk E.
 Sparber, Sheldon B.
 Swackhamer, Deborah L.
 Toscano Jr, William A.
 Vesley, Donald
 Wattenberg, Elizabeth V.
 Williams, Allan N.

Medicine

A complete list of Medical School Faculty may be found in the Medical School Catalog on-line at www.catalogs.umn.edu/tcmed/dept.html.

Health Services Research, Policy & Administration

Abraham, Jean M.
 Begun, James W.
 Bershadsky, Boris
 Blewett, Lynn A.
 Call, Kathleen Thiede
 Christianson, Jon B.
 Connor, Robert A.
 Dahl, Tor
 Davern, Michael E.
 Dowd, Bryan E.
 Feldman, Roger D.
 Finch, Michael D.
 Foote, Susan Bartlett
 Garrard, Judith M.
 Grant, Leslie Alan
 Holtzman, Jeremy L.
 Jonk, Yvonne Catharin M.
 Kane, Robert L.
 Kane, Rosalie A.
 Kralewski, John E.
 McBean, A. Marshall
 McAlpine, Donna D.
 Moscovice, Ira S.
 Nyman, John A.
 Parente, Stephen T.
 Potthoff, Sandra J.
 Radosevich, David M.
 Riley, William J.
 Rockwood, Todd H.
 Speedie, Stuart M.
 Town, Robert J.
 Virnig, Beth A.
 Weckwerth, Vernon E.
 Wholey, Douglas R.
 Wilson, Amy Reed

Public Health Administration

Baizerman, Michael L.
 Bender, Jeff B.
 Block, Lester E.
 Blum, Robert W.
 Brown, Judith E.
 Garrard, Judith
 Garwick, Ann E.
 Gerberich, Susan G.
 Grant, Leslie A.
 Hellerstedt, Wendy L.
 Jeffery, Robert W.
 Leonard, Barbara J.
 McBean, A. Marshall
 McGovern, Patricia M.

Patterson, Joan
 Resnick, Michael D.
 Schacht, Lee E.
 Veninga, Robert L.

Epidemiology, Maternal & Child Health, and Community Health Education

Anderson, Kristin E.
 Arnett, Donna
 Bender, Alan
 Blackburn, Henry
 Bushhouse, Sally
 Church, Timothy R.
 Crow, Richard S.
 Danila, Richard N.
 Desvarieux, Moise
 Duval, Susan J.
 Finnegan, John R., Jr.
 Flood, Andrew
 Folsom, Aaron R.
 Forster, Jean L.
 French, Simone
 Gatewood, Lael
 Grimm, Richard H.
 Gross, Myron D.
 Gurney, James G.
 Hannan, Peter J.
 Harnack, Lisa J.
 Hedberg, Craig W.
 Hellerstedt, Wendy L.
 Hennrikus, Deborah J.
 Himes, John H.
 Hull, Harry F.
 Jacobs, David R., Jr.
 Jeffery, Robert W.
 Jones-Webb, Rhonda J.
 Kane, Robert L.
 Komro, Kelli A.
 Lando, Harry A.
 Lazovich, Deann
 Leon, Arthur S.
 Lifson, Alan R.
 Luepker, Russell V.
 Lytle, Leslie A.
 Maldonado, George
 Mc Bean, Alexander M.
 Mertens, Ann C.
 Miller, Michael
 Neglia, Joseph P.
 Neumark-Sztainer, Dianne
 Oakes, Michael
 Osterholm, Michael T.

Pankow, James
 Pereira, Mark
 Perry, Cheryl
 Pirie, Phyllis
 Robison, Leslie
 Ross, Julie
 Rosser, B. R.
 Schmitz, M. Kathryn
 Schreiner, Pamela
 Shahar, Eyal
 Spector, Logan G.
 Steffen, Lyn
 Story, Mary
 Toomey, Traci
 Van Ryn, Michelle
 Virnig, Beth A.
 Wagenaar, Alexander

Science, Technology & Environmental Policy

Abrahamson, Dean E.
 Keller, Kenneth H.
 Kuzma, Jennifer
 Markusen, Ann R.
 Munnich, Lee W.
 Schuh, G. Edward

Pharmacology

Burton, Frank H.
 Campbell, Colin R.
 Connell, Gregory J.
 Conti-Fine, Bianca M.
 Dunham, Earl W.
 Eisenberg, Richard M.
 Elde, Robert P.
 El-Fakahany, Esam E.
 Fairbanks, Carolyn A.
 Gewirtz, Jonathan C.
 Hanna, Patrick E.
 Hecht, Stephen S.
 Hiasa, Hiroshi
 Holtzman, Jordan L.
 Hunninghake, Donald B.
 Knych Jr, Edward T.
 Lange, Carol A.
 Law, Ping-Yee
 Lee, Hon Cheung
 Loh, Horace H.
 Marchant, Jonathan S.
 Messing, Rita B.
 Pei, Duanqing
 Pentel, Paul R.
 Portoghese, Philip S.

Potter, Lincoln R.
 Regal, Jean F.
 Romero, Daniel P.
 Roy, Sabita
 Schrott, Lisa M.
 Seybold, Virginia S.
 Shebuski, Ronald J.
 Sinaiko, Alan R.
 Sladek, Norman Elmer
 Sparber, Sheldon B.
 Sundaram, Ramakrishnan
 Thayer, Stanley A.
 Trachte, George J.
 Wallace, Kendall B.
 Walseth, Timothy F.
 Wattenberg, Elizabeth V.
 Wei, Li-Na
 Wickman, Kevin D.
 Wilcox, George L.
 Wood, W. Gibson
 Yee, Douglas
 Zimmerman, Ben G.

Center for Bioethics

Bartels, Dianne
 Bebeau, Muriel
 Burk, Dan
 Cranford, Ronald
 Dahl, Norman O.
 DeBruin, Debra
 Dolan, John M.
 Elliot, Carl
 Eyler, John M.
 Hopkins, Jasper
 Kahn, Jeffrey P.
 Kahn, Jonathan
 Kane, Rosalie
 Liaschenko, Joan
 Mayo, David
 Miles, Steven
 Plotnikoff, Gregory
 Root, Michael D.
 Scheman, Naomi
 Song, John
 Taussig, Karen-Sue
 Virnig, Beth
 Wolf, Susan M.



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. Ron Daignault, Esq. and the firm of Merchant & Gould hosted the reception in 2003; Mark Ellinger, Esq. and the law firm of Fish and Richardson will be our hosts in 2004. The 2003-04 Board members were:

Ronald A. Daignault, JD, PhD, is a partner at Merchant & Gould, PC. He practices general intellectual property law with an emphasis on counseling including opinions on validity and infringement, adversarial matters including interferences and oppositions, filing and prosecuting patents in the chemical and pharmaceutical arts, as well as negotiating and preparing license agreements in these fields. During his 29 years in the pharmaceutical industry, he spent his first 5 years as a chemist developing commercially viable processes for the manufacture of new drugs. His patent experience extends to all major types of therapeutic agents, with particular expertise in preparation and prosecution, litigation, licensing and opposition practice worldwide, especially in the area of antibiotics. Prior to joining Merchant & Gould, Dr. Daignault managed the patent department in Ann Arbor, MI, for Warner-Lambert Company and was responsible for patent matters and licensing related to the pharmaceutical area of the company with a particular focus on the Parke-Davis Pharmaceutical Research Division. Dr. Daignault received his PhD in Organic Chemistry from the University of Notre Dame and his JD from Seton Hall University. In Winter 2004, Mr. Daignault transferred to Merchant & Gould's Washington, DC office. **Mark Skoog, JD, PhD** took his place on Advisory Board.

Mark Ellinger, JD, PhD, is the Managing Principal in the Twin Cities office of Fish & Richardson, one of the country's largest firms practicing intellectual property, litigation, and corporate law. Dr. Ellinger's practice emphasizes patent prosecution, opinions, due diligence investigations, and licensing and counseling in the medical biotechnology, agricultural biotechnology, diagnostic, pharmaceutical, and medical science fields. His practice has involved subject matter such as genomics, proteomics, gene therapy, xenotransplantation, transgenic animals, transgenic plants, metabolic engineering, immunoassays, nucleic acid-based assays, antisense technology, nucleic acid analogues, microarrays, vaccines, peptide therapeutics, stem cells, medical devices, food science, and potential treatments for diseases such as cardiovascular disease, cancer, allergy, arthritis, diabetes, and Alzheimer disease. Dr. Ellinger received his JD from Harvard University and his PhD in Developmental Biology from the University of Minnesota.

Philip M. Goldman, JD, MS, Fredrikson & Byron, PA, joined Fredrikson & Byron's Intellectual Property Group in 1992, after serving for 10 years in 3M's Office of Intellectual Property Counsel. He holds a BS in Biochemistry and an MS in Microbiology, has completed pre-doctoral work in radiation and molecular biology, and has worked as a research biochemist. Mr. Goldman's intellectual property experience includes all aspects of U.S. and international matters relating to the health, animal, and agricultural industries, with a particular focus on obtaining, licensing, and enforcing patents in the biomedical and biochemical areas. He is a past-President of the 600+ member Minnesota Intellectual Property Law Association (MIPLA) and is President of Mount Zion Temple in St. Paul, MN. Mr. Goldman received his JD from William Mitchell College of Law and his MS from Colorado State University.

Hubert (Skip) H. Humphrey, III, JD, is a Senior Fellow in Public Health Policy and Law in the Division of Epidemiology at the University's School of Public Health, Senior Vice President at Tunheim Partners, and currently serves as President of AARP-Minnesota. 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 for his efforts. Mr. Humphrey holds a JD from the University of Minnesota Law School and a bachelor's degree from American University.



Prof. Ruth Okediji, Law School, with Joint Degree Program student Jon Hareid at the Fall 2003 Advisory Board reception.



Advisory Board member Rep. Phyllis Kahn with her mentee, Joint Degree Program student Collette Adkins Giese.



Advisory Board member Hubert (Skip) Humphrey, Esq. with his mentee, Joint Degree Program student Samantha Tschida at the Fall 2003 Advisory Board reception.





Joint Degree Program Advisory Board

*Front row, L to R: Prof. Susan Wolf,
Ken Liebman, Esq., Ruth Mickelsen, Esq.,
Phil Goldman, Esq.*

*Back row L to R: Paul Savereide, Esq.,
Mark Ellinger, Esq., Mark Skoog, Esq.,
Prof. Colin Campbell,
Margo Struthers, Esq., Ann Russell, Esq.,
Adonis Neblett, Esq.*

*Not Pictured: Ron Daignault, Esq.,
Debra Shetka, Esq., Hubert Humphrey, Esq.,
Rep. Phyllis Kahn, Win Rockwell, Esq.,
Mark Rotenberg, Esq.*

Rep. Phyllis Kahn, PhD, MPA, is a member of the Minnesota legislature serving her 16th term. Her legislative interests include issues dealing with 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), the 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 instrumental in obtaining funding for parks, trails, historic preservation, art-enhancement of state buildings, and the expansion of community and urban forests. She has served on many national committees, particularly in the field of science and public policy. 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." She received a BA in Physics from Cornell, a PhD in Biophysics from Yale, and an MPA from the J.F.K. School of Government at Harvard University.

Kenneth A. Liebman, JD, Faegre & Benson LLP, is Chair of Faegre & Benson's Intellectual Property Group. 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. Mr. Liebman received his JD from Yale Law School.

Ruth A. Mickelsen, JD, MPH, is Vice President of Ethics and Compliance for Allina Hospitals and Clinics, a nonprofit health care organization, headquartered in Minneapolis, that includes community and tertiary care hospitals and a multi-clinic physician organization. She has been an Adjunct Professor of Health Law at the University of Minnesota Law School and William Mitchell College of Law. She was appointed a Distinguished Practitioner in Residence at William Mitchell College of Law during the 1999-2000 academic year. She is a member of the Board of Directors of the American Society of Law, Medicine & Ethics (ASLME) and a past-President of ASLME. She is also a legal advisor to the Minnesota Center for Healthcare Ethics. Ms. Mickelsen is co-author of *Law and Mental Health Professionals* (revised 1998) and a writer and lecturer on issues of health law, policy, and ethics. Ms. Mickelsen was awarded a Bush Leadership Fellowship in 1985 and has been named a leading health law lawyer by the *Minnesota Business Guidebook to Law and Leading Attorneys*. Ms. Mickelsen received her JD from William Mitchell College of Law and her MPH from Harvard University.

Adonis A. Neblett, JD, is a Shareholder in Fredrikson & Byron's Intellectual Property Group. His practice focuses on prosecution of U.S. and international patent applications in a variety of technologies, including chemical, environmental, medical devices, aerospace, films, coatings, biochemical, and mechanical. His practice includes product clearance/freedom to operate and due diligence analyses and related opinion work. Prior to joining Fredrikson & Byron, he practiced environmental law and intellectual property law in both the private and public sectors and served most recently in the Minnesota Attorney General's Office. He has litigated in state and federal courts at both the trial and appellate levels. Mr. Neblett received his JD from the University of Washington School of Law and his BS in Chemical Engineering from the Massachusetts Institute of Technology.

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 oversight of the firm's international operations and practice development. 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 nonprofit organizations and is a recent 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. Before law school, he worked on the foreign desk of the *New York Times* and as an Assistant to the President of Dartmouth College. Mr. Rockwell received his AB from Dartmouth College and his JD from New York University.



Mark Rotenberg, JD, MA, MPhil, has served as the University of Minnesota's General Counsel since 1992. Previously he was a partner at Dorsey & Whitney, specializing in employment litigation and labor law. He served in the 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 earned his BA *magna cum laude* from Brandeis University and MA, MPhil, and JD degrees from Columbia University, where he also served as an Editor of the *Columbia Law Review*. He is a member of the American Law Institute (ALI) and is an Adjunct Professor in both the Law School and the College of Liberal Arts at the University of Minnesota.

Ann L. Russell, JD, MSW, is a lawyer with 20 years of experience in advising health care entities. Currently an Associate Counsel for Catholic Health Initiatives, a national nonprofit organization with over a hundred hospitals, clinics, and skilled nursing facilities, she has also represented the University of Minnesota Hospital and Clinic and Hennepin County 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 Fairview University Health Center and Hennepin County Medical Center, and serves on the Ethics Advisory Committee to the Archbishop of St. Paul, MN. She served for 10 years on the Advisory Board to the University of Minnesota Center for Bioethics. Ms. Russell is a frequent speaker on ethical issues and teaches biomedical ethics at William Mitchell College of Law. Prior to practicing law, Ms. Russell was a psychiatric social worker in the Hennepin County Mental Health Center for 10 years.

Paul Savereide, JD, PhD, is a Senior Intellectual Property Attorney at Cargill. Prior to working at Cargill, he was Corporate Patent Counsel for Chiron Corporation in Emeryville, CA. He also worked as an associate with the Minneapolis office of the Dorsey & Whitney law firm. Mr. Savereide earned both his PhD in Cell and Developmental Biology and his JD from the University of Minnesota.

Debra A. Shetka, JD, is a sole practitioner in Granite Bay, CA. 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 2 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 law degree at the University of Minnesota where she was Editor-in-Chief of the *Journal of Law & Inequality*. After law school, she clerked for the Honorable Daniel M. Friedman, U.S. Court of Appeals for the Federal Circuit.

Mark T. Skoog, PhD, JD, is a partner at Merchant & Gould, PC. He practices general intellectual property law with an emphasis on client counseling and patent prosecution. He also has concentrated on infringement and validity analyses of patents in biotechnology, chemistry, and pharmaceuticals. He has drafted and prosecuted patents in the areas of chemistry, biotechnology, pharmaceuticals, medical devices, and power tools. Before becoming a patent attorney, Mark spent a decade as a researcher and research manager in the pharmaceutical industry. His research experience includes design, discovery, and evaluation of enzyme inhibitors as therapies for inflammatory, autoimmune, and viral diseases. He received his PhD in Biochemistry at Indiana University and his JD at the University of Minnesota.

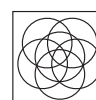
Margo S. Struthers, JD, Oppenheimer Wolff & Donnelly LLP, is Chair of the firm's Health Law Practice Group. She represents a variety of health care clients, including hospitals and other health care providers, provider associations, managed care and other insurance companies, and medical manufacturers. Her practice involves organizational structure and other issues affecting nonprofit, professional, and business organizations in health care. She also has substantial experience related to health care contracts, institutional and professional licensure, HMO and insurance regulation, fraud and abuse and other compliance issues, director and officer liability, conflict of interest and tax exemption issues, medical staff bylaws and credentialing, bioethical issues, and health information and confidentiality issues. In addition to being an active member and past-Chair of the Minnesota State Bar Association Health Law Section, she is a member of the American Health Lawyers Association and is a past-President of the Minnesota chapter of the former American Academy of Healthcare Attorneys. 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 received her JD at the University of Minnesota.



Advisory Board member Kenneth Liebman, Esq. with his mentee, Joint Degree Program student Katie Dick at the Fall 2003 Advisory Board reception.



Advisory Board member Margo Struthers, Esq. with her mentee, Joint Degree Program student Kelsey Brodsho.



Deinard Memorial Lecture on Law & Medicine



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



L to R: Miriam Kelen and
Prof. Amos Deinard, Jr.,
children
of Amos S. Deinard, Sr.,
and Prof. Troyen Brennan at the
inaugural Deinard Memorial Lecture.

The Joint Degree Program and Center for Bioethics launched the Deinard Memorial Lecture Series on Law & Medicine in the Spring of 2004. This lecture series is supported by a generous donation from the family of Amos S. Deinard, Sr. (1898-1985) in honor of him 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. A fund has been created in their memory to establish this lecture series on law and medicine.

On February 26, 2004, **Prof. Troyen Brennan, MD, JD, MPH**, of Harvard University presented the inaugural Deinard Memorial Lecture on **"The Crisis in Patient Safety and Malpractice: Fixing Medicine and Law."** Prof. Brennan is Professor of Medicine at Harvard Medical School, Professor of Law and Public Health at the Harvard School of Public Health, and President of Brigham and Women's Physicians Organization. Prof. Brennan presented empirical evidence on the state of the malpractice crisis in American medicine, but contended that litigation bears little relationship to medical injury and error, and most medical errors that result in injuries do not result in claims. Prof. Brennan argued that the malpractice crisis requires tort reform efforts and presented options for reform. **Carol Ley, MD**, Director of Occupational Medicine at 3M and Chair of the National Patient Safety Foundation, and **Prof. Roby C. Thompson, MD**, Associate Dean of Clinical Affairs at the University of Minnesota Medical School and CEO and Chair of University of Minnesota Physicians, provided commentary following Prof. Brennan's lecture.

During his visit at the University of Minnesota, Prof. Brennan also presented a lecture on **"Medical Errors, Patient Safety, and Medical Litigation"** as part of the Medical School's On Doctoring series for students and faculty.

Prof. Ellen Wright Clayton, MD, JD of Vanderbilt University will present the second Deinard Memorial Lecture on Friday, February 25, 2005 in the Mississippi Room at Coffman Memorial Union. Her presentation will focus on the societal implications of progress in genetics and genomics, including the implications for privacy, discrimination, and group identity.

Video of the Deinard Memorial Lecture is available on our websites at www.jointdegree.umn.edu/conferences/deinard_series.php and www.lifesci.consortium.umn.edu/conferences/deinard_series.php.

www.jointdegree.umn.edu

The Joint Degree Program's website is the best resource for learning about the degree combinations offered by the program. Descriptions of each degree combination are included under "Degree Programs." Application instructions and links to our partner programs may be found at "Applying." The "Careers" page profiles our alumni and others with joint degrees to show prospective students the myriad career options available to them. In 2003-04 we added a search function to allow users to access information on the site more quickly. Another new feature allows users to search for current news on law, health, environment, and life sciences via Google's search engine. Videos from all of the year's lectures, conferences, and symposia are available through portals on the "Conference & Lectures," "News & Events," and "Video Archives" pages. Bios of the Governing Committee, Executive Committee, and Joint Degree Program faculty and staff may be found on the "Faculty & Staff" page. The "Advisory Board" page profiles our Board members. User comments are always welcome — e-mail us at jointdgr@umn.edu with your thoughts and suggestions.





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

UNIVERSITY OF MINNESOTA

Consortium Members

As the Joint Degree Program recruits and trains gifted students to tackle interdisciplinary problems in health and the life sciences, the Consortium links leading centers and programs at the University of Minnesota to do the same. Our 16 member centers and programs are described below.

The **Joint Degree Program** (www.jointdegree.umn.edu) is represented by its founding Director, Prof. Susan Wolf, Faegre & Benson Professor of Law and Professor of Medicine, and Associate Director Prof. Colin Campbell, Associate Professor and Director of Graduate Studies in the Department of Pharmacology.

The **Center for Bioethics** (www.bioethics.umn.edu) strives to advance and disseminate knowledge concerning ethical issues in health care, biomedicine, and the life sciences. The Center conducts original interdisciplinary research, offers educational programs and courses, fosters public discussion and debate through community outreach activities, and assists in the formulation of public policy. The Center is directed by Prof. Jeffrey Kahn, Maas Family Professor of Bioethics and Professor of Medicine, Philosophy, and Health Services Research & Policy.

The **Biomedical Genomics Center** (www.bmgc.umn.edu) 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. Directed by Prof. Ashley Haase, Regents' Professor and Head of Microbiology, with co-Director Prof. Vivek Kapur, Professor of Veterinary Pathobiology and Microbiology, 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 **Center for Microbial and Plant Genomics** (www.cmpg.umn.edu) aims to make the University of Minnesota a world leader in microbial and plant genomics by fostering research and education while building public awareness of genomics and its applications in a societal and ethical context. The Center is led by Prof. Ronald Phillips, Regents' Professor and McKnight Presidential Chair in Genomics.

The **Stem Cell Institute** (www1.umn.edu/stemcell) works to further basic research in genetics and genomics, 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 the biology and physiology of stem cells, foster and increase public awareness of stem cells and their potential clinical applications, and address ethical issues in stem cell biology and therapies. The Center is directed by Prof. Catherine Verfaillie, McKnight Presidential Chair in Stem Cell Biology.

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

The **Genomics Planning and Coordinating Committee (GPCC)** (www.genomics.umn.edu) is chaired by Vice Provost Victor Bloomfield, who is also Interim Dean of the Graduate School and Professor of Biochemistry, Molecular Biology & Biophysics. The GPCC provides a mechanism for evaluating and implementing University-wide initiatives in biology at the molecular and cellular levels. Its emphasis is on developing research infrastructure and advanced teaching in interdisciplinary areas.



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

UNIVERSITY OF MINNESOTA



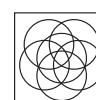
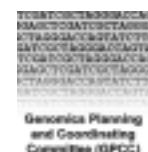
AcademicHealthCenter
UNIVERSITY OF MINNESOTA



CENTER FOR MICROBIAL
AND PLANT GENOMICS



UNIVERSITY OF MINNESOTA





The **Center for Infectious Disease Research & Policy** (www.cidrap.umn.edu) is led by Prof. Michael Osterholm, Professor of Epidemiology in the University's School of Public Health, and Jill DeBoer, MPH. The Center's mission is to support the development of public policies relating to the prevention, control, and treatment of infectious diseases. The Center works to ensure that these policies reflect the most current biomedical knowledge. The Center also strives to promote practices among both healthcare professionals and the public to reduce illness and death from infectious diseases.



The **Center for Animal Health & Food Safety** (www.cahfs.umn.edu) is led by Prof. William Hueston, Director, and Shaun Kennedy, Associate Director. Prof. Hueston has appointments in the School of Public Health's Division of Epidemiology and the College of Veterinary Medicine's Department of Clinical and Population Sciences. The Center plays a leadership role in assuring food safety from the farm to the consumer. It does this regionally and nationally through aggressive risk communication, applied research, integrated animal and public health surveillance, expanded educational programs, and facilitation of creative prevention and quality assurance strategies involving producers, processors, distributors, retailers, food service, and consumers.



The **Center for Neurobehavioral Development** (www1.umn.edu/cnbd) is co-directed by Prof. Charles Nelson, Distinguished McKnight University Professor of Child Psychology, Neuroscience, Pediatrics, Neurology, Radiology, and Psychiatry, and Prof. Michael Georgieff, Professor of Pediatrics and Child Psychology. 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.



The **Center for Environment & Health Policy** (www1.umn.edu/eoh/policy) works to use research, education, and outreach to foster informed, reasonable decisions about protecting the environment and human health. The Center's goals are four-fold: to promote rational, well-reasoned, and credible environmental decision making; to provide independent and objective information on important environmental policy issues; to strengthen the role of science in regulatory decision making by serving as a link between scientists and policy makers; and to train future leaders in environment and health policy. In 2003-04, Prof. William Toscano, Head of the School of Public Health's Division of Environmental and Occupational Health, was the Center's interim director.



The **Center for Plants and Human Health** (cphh.coafes.umn.edu) is coordinated by Prof. Gary Gardner, Professor of Horticultural Science. The Center takes advantage of the fact that the University of Minnesota Twin Cities campus is one of the few major research universities in the country that has both an Academic Health Center and a College of Agricultural, Food, and Environmental Sciences. The Center provides a forum for the development and exchange of information relevant to plants and human health and serves as a stimulant for interdisciplinary collaboration leading to new research opportunities and funding in this vital area.



The **Program in Agricultural, Food, and Environmental Ethics** (www.agricola.umn.edu/ethics) aims to offer educational programs and courses, conduct original interdisciplinary research, and foster public discussion and debate about food consumption, the human relationship to the nonhuman environment, and the ethics of agricultural research, production, and distribution. The goals of the Program are to formulate and identify questions of ethical significance to Midwestern residents concerning agriculture, food, and the environment; to develop and evaluate moral theories and principles related to these questions; and to explore the application of these moral theories and principles by individuals and groups. The Program is directed by Prof. Dan Philippon, Department of Rhetoric, and Associate Dean Beverly Durgan in the College of Agricultural, Food, and Environmental Sciences.



The **Center for Science, Technology, and Public Policy** (www.hhh.umn.edu/centers/stpp) fosters understanding of the role of science and technology in our society, especially in relation to economic growth, health, the environment, education, and national security. The Center also supports research and teaching in the Humphrey Institute's MS degree in Science, Technology, and Environmental Policy. The Center is led by Prof. Kenneth Keller, the Charles M. Denny, Jr. Professor of Science, Technology, and Public Policy, Humphrey Institute and Department of Chemical Engineering and Materials Science, and Jennifer Kuzma, PhD.

The **Water Resources Center (WRC)** (wrc.coafes.umn.edu) conducts and funds research and outreach related to water resources in the state of Minnesota. The graduate program in Water Resources Science also is administered by the WRC. As the focal point for a broad range of research, education, and information exchange related to water resources, the WRC links faculty and student researchers with practicing professionals and citizens to address water resources issues. This facilitates effective delivery of research results to citizens and decisionmakers and opens new avenues for multi-disciplinary and interagency partnerships. The Center is directed by Profs. Deborah Swackhamer, Division of Environmental Health Sciences, and James L. Anderson, Department of Soil, Water, and Climate.

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



CENTER FOR SPIRITUALITY AND HEALING

AcademicHealthCenter
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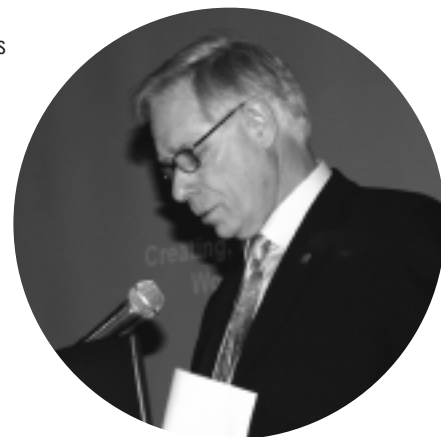
Presidential Interdisciplinary Initiative on Law and Values

While continuing its investment in established programs and departments already recognized as excellent, the University of Minnesota is also building on its breadth by cultivating work across the disciplines. University President Robert Bruininks named 8 Interdisciplinary Initiatives in his October 2, 2003 State of the University Address. One of these commissioned interdisciplinary priorities for 2003-04 and beyond is deepening the University's commitment to the Consortium on Law and Values in Health, Environment & the Life Sciences.

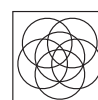
The Consortium is honored to be included among the following Initiatives:

- Arts and Humanities
- Biocatalysis
- Brain Development and Vitality over the Life Span
- Children, Youth, and Families
- Environment and Renewable Energy
- Health Foods, Healthy Lives
- Translational Research in Human Health

Beginning in 2004, the Presidential Initiative has generated new funds that will allow the Consortium to continue its current programming, launch the new *Minnesota Journal of Law, Science & Technology*, expand its capabilities to secure and manage externally funded grants, establish an annual Visiting Scholar position, and further the work of our constituent departments, programs, and centers on the societal implications of the life sciences. Presidential Initiative support was also received from the President's 21st Century Interdisciplinary Conference Series for the Consortium's conference on "Environmental Threats to Children's Health: Legal and Policy Challenges" and symposium on "Intellectual Property Rights for the Public Good: Obligations of U.S. Universities to Developing Countries." The Consortium is grateful to the Office of the President and the Office of the Senior Vice President for Academic Affairs and Provost for their support and confidence.



President Robert Bruininks welcomes attendees to the symposium on intellectual property rights.



Minnesota Journal of Law, Science & Technology

The Consortium, together with the University of Minnesota Law School and *Minnesota Intellectual Property Review (MIPR)*, are delighted to announce the creation of this unique new journal. The *Minnesota Journal of Law, Science & Technology (MJLST)* is a multidisciplinary peer-reviewed journal published twice annually, edited by faculty from across the University of Minnesota as well as by law students. This journal builds upon the foundation created by *MIPR*. Following the publication of vol. 5, no. 2 in Spring 2004, *MIPR* became *MJLST*, which will publish its first issue in December 2004. *MJLST* has expanded the focus of *MIPR* to address not only intellectual property issues, but also policy, ethical, and societal issues at the intersection of law, science, and technology. *MJLST* will publish articles from all disciplinary areas, not just law. *MJLST* remains a journal based at the Law School staffed by law students, but will be overseen and managed by the Consortium on Law and Values in Health, Environment & the Life Sciences. The journal is made possible by support received from the Presidential Initiative on Law and Values together with support from the Law School.

The journal features a dual masthead, one for the faculty editors and another for the student editors. *MJLST* is committed to remaining an educational opportunity for law students and a venue for their scholarly publications. The student staff and board will be chosen competitively by the students, as has been the practice of *MIPR* in the past. Prof. Jim Chen is the Faculty Editor-in-Chief and Victor Jonas is the Student Editor-in-Chief. A Faculty Editorial Board has been created to peer review and edit faculty-written articles for *MJLST*. The Editorial Advisory Board includes representatives from Consortium member centers and programs as well as University departments working on the societal implications of scientific advances. The faculty and student mastheads may be found below and at www.mjlst.umn.edu.

MJLST will be available to subscribers as a hard-copy print journal. With a one-year delay, full text for each volume will join past volumes of *MIPR* on-line. The two issues published per year may include solicited content from lectures and symposia sponsored by the Consortium or its members, as well as unsolicited submissions. In addition, the issues will include student Notes and Comments.

Although this new journal will offer a venue for publications resulting from events sponsored by the Consortium and its members, the journal will retain its editorial independence. The journal's faculty and student editors will decide what to publish and the shape of each volume. The first issue of *MJLST* will feature articles by speakers at the Consortium's April 29, 2004 symposium on "Intellectual Property Rights for the Public Good: Obligations of U.S. Universities to Developing Countries," as well as free-agent submissions and student notes.



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Consortium Requests for Proposals (RFPs)

In order to encourage campus-wide work on the societal implications of problems in health, environment, and the life sciences, the Consortium awards intramural grants. In Spring 2004, we issued 3 Requests for Proposals. One was for University of Minnesota faculty, one was for departments/programs/centers, and one was for graduate and professional students. We made 10 awards, for a total of \$62,550. The 2003-04 subcommittee recommending awards to the full Consortium was Profs. Jeffrey Kahn, William Toscano, and Jim Chen. Consortium members recused themselves from consideration of applications as appropriate.

Faculty

The RFP for faculty invited proposals to fund research, projects, or curricular innovation on the societal implications of problems in health, environment, or the life sciences. The Consortium made 4 awards:

- **"Building a Community of Scholars in Conservation Medicine,"** Prof. Jonathan Sellman (Medicine) (\$5000 awarded);
- **"Environmental Factors Influencing Bacterial Evolution: A Multi-Disciplinary Program in International Public Health,"** Prof. Randy Singer (Epidemiology) (\$9800 awarded);
- **"The Science and Politics of Genetics and Reproduction,"** Prof. Murray Jensen (General College) (\$10,000 awarded); and
- **"End-of-Life Planning for Homeless Persons,"** Profs. John Song, Edward Ratner, Dianne Bartels (Center for Bioethics) (\$8000 awarded).

Programs/Departments/Centers

The RFP for programs/departments/centers invited proposals seeking matching funds for colloquia addressing the societal implications of problems in health, environment, or the life sciences. We made 2 awards:

- Minnesota Center for the Philosophy of Science, lectures in the 2004-05 **Studies of Science and Technology Colloquium Series**, Prof. C. Kenneth Waters, Director (\$5000 awarded); and
- Center for Animal Health & Food Safety, colloquium on **"Geographic Information Systems (GIS): The Technical, Legal and Ethical Implications of the Integration of Information Systems for Animal and Human Health,"** Prof. Peter Davies, Leman Chair, and Shaun Kennedy, Associate Director (\$2000 awarded).

Graduate and Professional Students

The RFP for graduate and professional students was intended to provide a stipend for research and writing in the Summer of 2004 or academic year 2004-05 and reimbursement of research-related expenses. The RFP stimulated 57 proposals from students in 33 programs around the University, including programs on the Duluth campus. Four awards were made:

- **"The Sources of Environmental Empowerment: A Cross-Natural Statistical Analysis of Environmental Non-Governmental Organizations, 1990-2000,"** Wesley Longhofer, PhD student, Sociology (\$5250 awarded);
- **"Re-Mapping Expertise and the 'Nature' of Environmental Management—Understanding Indigenous Knowledges in Practice,"** Annette Watson, PhD student, Geography (\$7000 awarded);
- **"International Regulation of Genetically Modified Fish: Navigating Biosafety and Trade Policy Water,"** Timothy Patronski, MS student, Science, Technology & Environmental Policy (\$5377.50 awarded); and
- **"The Impact of Federal Intellectual Property Policies and Recent Federal Circuit Court Fiat on Biomedical Research at Non-Profit Research Institutions,"** Wendy Thai, JD student, Law School (\$5100 awarded).

The Consortium expects to re-issue all 3 RFPs in January 2005. In addition, a new RFP will be issued to Consortium members and Joint Degree Program partner programs and departments to support their work on the societal implications of the life sciences. This new RFP is made possible through the generous support received through the Presidential Interdisciplinary Initiative on Law and Values. RFPs and reports on the winning projects may be found at www.lifesci.consortium.umn.edu/rfps/.



Prof. Susan Wolf confers with Prof. Dale Jamieson, Carleton College, prior to his Lunch Series lecture on "Science, Ethics, and the Animal Protection Movement."



Annual Symposium

Each year since 2001 the Consortium has sponsored an annual symposium. Past symposia have been half-day events. In April 2004, the Consortium partnered with the Center for Microbial and Plant Genomics to sponsor a national full-day symposium on “**Intellectual Property Rights for the Public Good: Obligations of U.S. Universities to Developing Countries.**” This April 29, 2004 event was featured as part of the University of Minnesota President’s 21st Century Interdisciplinary Conference Series. This symposium was created to examine issues of intellectual property and technology transfer. The event provided a public discussion of the impact of intellectual property protection on making public goods devised at universities available to the developing world. The basic roles of land-grant universities were evaluated with respect to developments such as golden rice. Prominent scholars in agricultural policy, intellectual property, and research presented an informed view of the situation, and a panel discussion discussed future options.



Dean Charles Muscoplat, College of Agricultural, Food and Environmental Sciences, speaking at the symposium on intellectual property rights.



Featured speakers included **Sara Boettiger** (Public Intellectual Property Resource for Agriculture and University of California), **Ronald Cantrell, PhD** (Director General, International Rice Research Institute, Philippines), **Prof. Robert Goodman, PhD** (McKnight Foundation and University of Wisconsin), **Prof. Mark Janis, JD** (University of Iowa), **Prof. Anatole Krattiger, MPhil, PhD** (President, bioDevelopments and Adjunct Professor, Cornell University), **Prof. Philip Pardey, PhD** (University of Minnesota), **Prof. Susan Sell, PhD** (George Washington University), and **Michael Taylor, JD** (Resources for the Future, Washington, DC). **President Robert Bruininks, PhD**, (University of Minnesota) gave the welcome followed by opening remarks by **Prof. Susan Wolf, JD** (Chair, Consortium) and **Prof. Ronald Phillips, PhD** (Director, Center for Microbial and Plant Genomics). Commentators at the event included the University of Minnesota’s **Prof. Dan Burk, MS, JD, JSM** (Law School); **Interim Vice President for Research David Hamilton, PhD**; **Dean Charles Muscoplat, PhD** (College of Agricultural, Food, and Environmental Sciences); and **Prof. Ruth Okediji, LLB, LL.M, SJD** (Law School) plus **Kenneth Liebman, JD** of the law firm of Faegre & Benson. **Prof. Ronald Phillips, PhD** and **Prof. Jim Chen, JD** (Law School) acted as moderators for the day.



Profs. Ronald Philips, Jim Chen, Ruth Okediji, and Dan Burk published an op-ed article related to the event in *The Scientist*. (See Philips RL, Chen J, Okediji R, Burk DL. *Intellectual Property Rights and the Public Good. The Scientist.* 2004;18(14):8.) A published symposium of articles by additional presenters at the event, including **Dr. Ronald Cantrell, Prof. Susan Sell, Michael Taylor**, and others, will appear in the December 2004 issue of the *Minnesota Journal of Law, Science & Technology*.

Video of all of the symposium presentations may be found on-line at www.lifesci.consortium.umn.edu/conferences/ip.php. This event provided 7 hours of continuing legal education credit (CLE) for attorneys.

Sara Boettiger, PIPRA and University of California, and Prof. Robert Goodman, McKnight Foundation and University of Wisconsin, talk with Law School Profs. Dan Burk and Prof. Ruth Okediji at the intellectual property symposium.



National Institutes of Health (NIH) Grants

Since the Consortium was founded in 2000, one of our primary goals has been to reach the point where we could compete for grants to originate important work on the societal implications of the life sciences. This has required a tremendous effort on the part of all Consortium members and our Consortium staff.

In 2003 the National Human Genome Research Institute (NHGRI) at NIH funded the grant proposal the Consortium submitted in July 2002 on "Colliding Categories: Haplotypes, Race & Ethnicity." This project has involved an eminent national group of scholars to analyze how the information emerging from haplotype mapping of the human genome will and should interact with preexisting social categories of race and ethnicity. Scholars included in our project have been: **Profs. Troy Duster, PhD** (New York University and University of California, Berkeley); **Phyllis Griffin Epps, JD** (University of Houston); **Kim Fortun, PhD** (Rensselaer Polytechnic Institute); **Evelynn Hammonds, PhD** (Harvard University); **Jonathan Marks, PhD** (University of North Carolina, Charlotte); **Michael Omi, PhD** (University of California, Berkeley); **Dorothy Roberts, JD** (Northwestern University); and **Charmaine Royal, PhD** (Howard University); and University of Minnesota **Profs. Donna Arnett, PhD; Rose Brewer, PhD; Colin Campbell, PhD; Jeffrey Kahn, PhD, MPH; Vivek Kapur, PhD; Harry Orr, PhD; William Toscano, PhD; and Susan Wolf, JD**. The Principal Investigator on this grant has been **Dr. Jonathan Kahn, JD, PhD**, who has recently moved from the Consortium and Center for Bioethics to the Hamline University School of Law.

In 2003-04, the Consortium continued its research efforts by submitting 2 additional grant proposals to NIH and partnering with the Center for Bioethics on a third proposal. With support from the Presidential Initiative on Law and Values, the Consortium expects to further expand its research by hiring additional staff to focus on research and grants.

www.lifesci.consortium.umn.edu

The Consortium's website serves as a gateway to the 16 members of the Consortium and provides central access to information, news, and events relating to the University of Minnesota's work on societal implications of problems in health, environment, and the life sciences. As on the Joint Degree Program's website, we have now added a search function to allow users to access information on the site more quickly. The Consortium site also utilizes the Google news search feature, which allows users to search for current world news on law, health, environment, and the life sciences. Videos from all of the year's lectures, conferences, and symposia are available on the website, along with videos from all of our events held in previous years. Our "Education" page lists nearly 800 University of Minnesota undergraduate, graduate, and professional courses that address the societal implications of problems in health, environment, or the life sciences. This compendium serves to encourage students to consider taking such courses, show applicants to the University what we offer in this area, educate the public on course offerings, and guide Consortium and broader University efforts to strengthen this critical part of the curriculum.



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



Working Group

Front row, L to R: Profs. Dorothy Roberts, Karen-Sue Taussig, Charmaine Royal, Kim Fortun.

Middle row, L to R: Dean Alex Johnson, University of Minnesota Law School; Prof. Michael Omi; Rebecca Trotsky-Sirr, Research Assistant; Prof. Susan Wolf.

Back row, L to R: Prof. Fido Ebba; Guillermo Avilés-Mendoza, Research Assistant; Prof. Jeff Kahn; Dr. Jonathan Kahn; Prof. Jonathan Marks; Susan Parry, Research Assistant; Prof. Colin Campbell; Prof. Harry Orr; Prof. Donna Arnett.

Not Pictured: Profs. Rose Brewer, Troy Duster, Phyllis Griffin Epps, Evelynn Hammonds, Vivek Kapur, William Toscano.





*Prof. Ronald Phillips,
Director of the Center for Microbial
and Plant Genomics, welcomes the
audience at the annual symposium.*



*Prof. Gary Gardner, Center for Plants and
Human Health, introducing Prof. Marion
Nestle at her Lunch Series lecture.*



*Prof. Jeremy Sugarman, Duke University,
and Prof. Jeffrey Kahn, Center for Bioethics,
before Prof. Sugarman's lecture
on "Solutions to the Crisis in Human
Subjects Research: From Pillar to Post?"*

Executive Committee

The Consortium and Joint Degree Program created an Executive Committee in 2003 to work with Prof. Susan Wolf, Chair and Director. The Executive Committee is a joint Consortium/Joint Degree Program Committee because nearly all of our events are jointly sponsored, staffed, and funded. The Executive Committee was established to facilitate the work of the Consortium and Joint Degree Program by spreading the intellectual responsibility for our programming and taking full advantage of the extraordinary expertise in both programs.

Committee members were each responsible for planning a conference or lecture series and provided invaluable input and advice during the creation of the new Presidential Interdisciplinary Initiative on Law and Values.

The members of the Executive Committee for 2003-04 were:

Prof. Jim Chen, JD (Joint Degree Program & Consortium), took the lead on planning the conference on "Environmental Threats to Children's Health: Legal and Policy Challenges." Prof. Chen is the James L. Krusemark Professor of Law at the University of Minnesota Law School and Director of Special Projects for the Joint Degree Program and Consortium. He is also Faculty Editor-in-Chief for the new *Minnesota Journal of Law, Science & Technology*.

Prof. Gary Gardner, PhD (Center for Plants & Human Health) took the lead on planning the Lunch Series on the Societal Implications of the Life Sciences with Prof. Dan Philippon, PhD (Program in Agricultural, Food, and Environmental Ethics). Prof. Gardner is the Director of the Center for Plants and Human Health and a Professor of Horticultural Science at the University of Minnesota.

Prof. Jeffrey Kahn, PhD, MPH (Center for Bioethics) took the lead on the Faegre & Benson Lecture Series on Law, Health & the Life Sciences. Prof. Kahn is the Maas Family Professor of Bioethics, Director of the University of Minnesota's Center for Bioethics and Professor in the Department of Medicine, Medical School; Division of Health Services Research and Policy, School of Public Health; and Department of Philosophy.

Prof. Ronald Phillips, PhD (Center for Microbial & Plant Genomics), took the lead on the annual symposium on "Intellectual Property Rights for the Public Good: Obligations of U.S. Universities to Developing Countries." Prof. Phillips is a Regents' Professor and the McKnight Presidential Chair in Genomics at the College of Agricultural, Food, and Environmental Sciences. He is also the Director of the University's Center for Microbial and Plant Genomics.

The 2004-05 Executive Committee will include:

- **Prof. Catherine Verfaillie** (Stem Cell Institute), taking the lead on the Lecture Series on Law, Health & the Life Sciences, focusing on biotechnology, stem cells, and genomics;
- **Prof. Jeffrey Kahn** (Center for Bioethics), taking the lead on the Lunch Series on the Societal Implications of the Life Sciences, focusing on medical devices and innovation;
- **Prof. Deborah Swackhamer** (Water Resources Center), taking the lead on the annual conference, focusing on science and politics; and
- **Prof. Jim Chen** (Joint Degree Program & Consortium), taking the lead on the annual symposium, which will incorporate a new open-source submission process.



Faegre & Benson Lecture Series on Law, Health & the Life Sciences

A generous gift from the Law Firm of Faegre & Benson has supported the Faegre & Benson Lecture Series on Law, Health & the Life Sciences from 2000 to 2004. The Series has sponsored 3 lectures per year. 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 highly selected faculty members, community members, and government leaders as well as our Joint Degree Program students. The 2003-04 Lecture Series focused on cutting-edge issues in the conduct of human subjects research.

Wednesday, October 29, 2003

Prof. Jeremy Sugarman, MD, MPH, MA of Duke University presented “**Solutions to the Crisis in Human Subjects Research: From Pillar to Post?**” Prof. Sugarman was Professor of Medicine and Philosophy at Duke University and directed the Center for the Study of Medical Ethics and Humanities; he is now the Harvey M. Meyerhoff Professor of Bioethics and Medicine at Johns Hopkins University. Prof. Sugarman's lecture focused on the issues that arise when using human subjects in research, including the history of modern research ethics and role for empirical study. He canvassed and critiqued proposals for reform. **Prof. Catherine Jordan, PhD** of the Departments of Pediatrics and Neurology and **Prof. Jeffrey Kahn, PhD, MPH**, Director of the Center for Bioethics, provided commentary.



Prof. Jeremy Sugarman, Duke University.

Wednesday, December 3, 2003

Prof. Haavi Morreim, PhD of the University of Tennessee presented “**Medical Devices: A Different Twist on the Ethics and Law of Research Protections.**” Prof. Morreim is Professor of Bioethics and Professor of Health Services and Policy Research at the University of Tennessee College of Medicine. She is also the Chair of the Independent Patient Advocacy Council for the AbioCor artificial heart trial. Prof. Morreim's lecture focused on the AbioCor heart trials and the unique legal and ethical issues raised. She contrasted the issues raised by pharmaceutical research with those raised by medical device trials. **Kenneth Leibman, JD**, Partner at Faegre & Benson LLP, and **Prof. Susan Foote, JD** of the Division of Health Services Research & Policy provided commentary.



*Prof. E. Haavi Morreim,
University of Tennessee.*

Wednesday, March 10, 2004

Dr. David Korn, MD, Senior Vice President of Association of American Medical Colleges (AAMC) presented “**Financial Conflicts of Interest in Biomedical Research.**” Dr. Korn examined dramatic advances in biomedical research that have been accompanied by an equally dramatic deepening of financial relationships linking medical faculty and their institutions with industry sponsors and patrons. He argued that there are substantial gaps in the federal regulations that govern conflicts of interest in biomedical research. He presented the AAMC guidelines. **Prof. David Hamilton, PhD**, Interim Vice President for Research, and **Prof. Norm Bowie, PhD** of the Carlson School of Management provided commentary.

Our Lecture Series in 2004-05 will focus on biotechnology, stem cells, and genomics. **Prof. Catherine Verfaillie**, Director of the Stem Cell Institute, is taking the lead in planning these events. The lecturers will be **Prof. Evan Snyder, MD, PhD** (Burnham Institute) on December 8, 2004; **Prof. Janet Rowley, MD** (University of Chicago) on February 2, 2005; and **Prof. Alta Charo, JD** (University of Wisconsin Law School) on April 20, 2005. All lectures begin at 11:30am in Coffman Memorial Union's Mississippi Room, are followed by faculty commentary, and conclude at 1:00pm when the invited lunch begins in the President's Room at Coffman Union. All lectures are free and open to the public. Credit for Continuing Medical Education (CME), Continuing Nursing Education (CNE), and Continuing Legal Education (CLE) will be requested for each lecture.

Videos from all of the 2003-04 lectures are available on our websites at www.jointdegree.umn.edu/conferences/lecture_series.php and www.lifesci.consortium.umn.edu/conferences/lecture_series.php.



*Dr. David Korn,
Association of American Medical Colleges.*





Prof. Dale Jamieson, Carleton College.



Prof. David Ehrenfeld, Rutgers University.



*Prof. Eric Freyfogle,
University of Illinois College of Law.*



Prof. Marion Nestle, New York University.

Lunch Series on the Societal Implications of the Life Sciences

The Joint Degree Program and the Consortium inaugurated the Lunch Series on the Societal Implications of the Life Sciences in the Fall of 2001. The Series sponsors 4 lectures per year. Each lecture brings to campus an eminent scholar examining the societal implications of the life sciences, who lectures to and meets with faculty, students, and community members. The focus for the 2003-04 Lunch Series was agricultural and environmental ethics and policy. All lectures were standing-room only. The Lunch Series speakers were:

September 22, 2003

Prof. Dale Jamieson, PhD, was the Henry R. Luce Professor in Human Dimensions of Global Change at Carleton College; he is now Professor of Environmental Studies and Philosophy at New York University and Adjunct Scientist for the National Center for Atmospheric Research's Environmental and Societal Impacts Group. He presented "**Science, Ethics, and the Animal Protection Movement.**" Prof. Jamieson described evidence that human attitudes toward animals are changing. He pointed to legal changes as well as Animal Law courses increasingly taught at American law schools. He showed how these changes have emerged from scientific developments. He suggested ways to improve oversight of animal use in research.

November 17, 2003

Prof. David Ehrenfeld, MD, PhD, Professor of Biology in the Department of Ecology, Evolution, and Natural Resources at Rutgers University's Cook College, presented "**Globalization to Biodiversity.**" Prof. Ehrenfeld argued that globalization is resulting in widespread social and environmental disruption. He contended that globalization has profound consequences for the variability in plant and animal species, and discussed the role of environmental regulations.

February 10, 2004

Prof. Eric Freyfogle, JD, the Max L. Rowe Professor of Law at the University of Illinois College of Law, presented "**Ecology, Ethics, and Private Land.**" Prof. Freyfogle discussed the conflict of values that emerges from multiple land use and what role ecology should play in property law. He articulated a need to integrate private property with communal needs and addressed the function of property law.

April 13, 2004

Prof. Marion Nestle, PhD, MPH, Professor and Director of Public Health Initiatives in New York University's Department of Nutrition, Food Studies, and Public Health, presented "**The Ironic Politics of Obesity.**" Prof. Nestle argued that deliberate federal policies, encouraged by a powerful food lobby, have kept food costs low for consumers, thereby contributing to the epidemic of obesity. She noted that the FDA originally implemented more stringent rules but was sued by food companies who won on the grounds of freedom of speech. This has enabled food companies to make unsubstantiated claims about the "healthiness" of their packaged products. Attorneys are now focusing on food lawsuits similar to those against tobacco companies.

In 2004-05 the Lunch Series will focus on medical devices and innovation. **Prof. Jeffrey Kahn**, Director of the Center for Bioethics, is planning this series with **Prof. Susan Foote** of the Division of Health Services Research & Policy. The lecturers will be **Dr. Sean Tunis, MD, MSc** (Centers for Medicare & Medicaid Services) on Wednesday, September 22, 2004; **Prof. Michael Lysaght, PhD** (Brown University) on Tuesday, November 2, 2004; **Prof. Jonathan Moreno, PhD** (University of Virginia) on Tuesday, February 8, 2005; and **Alan Milstein, Esq.** (Sherman, Silverstein, Kohl, Rose & Podolsky) on Tuesday, April 5, 2005. Due to audience demand, the 2004-05 events will allow additional time for questions and have been expanded from 50 to 75 minutes. All lectures are held from 12:15pm-1:30pm in Coffman Memorial Union's Mississippi Room and are free and open to the public. Credit for Continuing Medical Education (CME), Continuing Nursing Education (CNE), and Continuing Legal Education (CLE) will be requested for each lecture.

Videos from all of the 2003-04 lectures are available on our websites at www.jointdegree.umn.edu/conferences/lunch_series.php and www.lifesci.consortium.umn.edu/conferences/lunch_series.php.



Annual Conference

Each year the Joint Degree Program and Consortium co-sponsor a full-day conference. This year's topic was **"Environmental Threats to Children's Health: Legal and Policy Challenges."** The April 2, 2004 conference was part of the University of Minnesota President's 21st Century Interdisciplinary Conference Series. It was also sponsored by the Academic Health Center. Children's particular vulnerability to environmental hazards has forced Minnesota and the nation to look more closely at environmental threats to children's health. How to address those concerns with sound policy and law is a subject of great debate. This event was created to identify policy challenges related to children's environmental health, discuss how scientific progress and uncertainty affect public policy, suggest ways to craft effective environmental policy, analyze legal and policy responses designed to protect future generations from genetic and environmental harms, and understand children's unique environmental justice issues.

The conference featured the nation's leading speakers on these issues including: **Prof. Robert Bullard, PhD** (Clark Atlanta University), **Prof. Peter Nathanielsz, MD, PhD** (New York University Medical School), **Prof. J. Roult Reigart, MD** (Medical University of South Carolina), **Rabbi Daniel Swartz, MHL** (Executive Director, Children's Environmental Health Network), and **Prof. Wendy Wagner, JD** (University of Texas School of Law).

University of Minnesota faculty and local experts provided commentary after the plenary presentations.

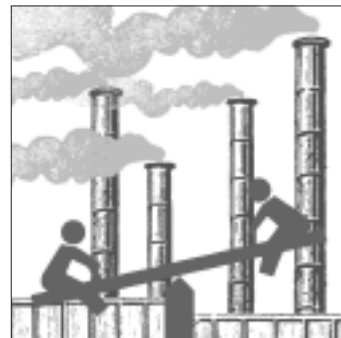
Commentators included: **Prof. John Adgate, PhD** (School of Public Health), **Rep. Keith Ellison, JD** (Minnesota House of Representatives), **Prof. Vincent Garry, MD** (Medical School), **Prof. Michael Georgieff, MD** (Medical School), **Prof. Jamie Grodsky, JD** (Law School), **Prof. Brad Karkkainen, JD** (Law School), **Prof. Charles Nelson, PhD** (Center for Neurobehavioral Development), **Prof. Myron Orfield, JD** (Law School); **John Persell** (Minnesota Chippewa Tribe Water Quality Laboratory), **Pam Shubat, PhD** (Minnesota Department of Health), **Prof. Bill Toscano, PhD** (School of Public Health), **Rep. Jean Wagenius, JD** (Minnesota House of Representatives), **David Wallinga, MD, MPA** (Institute for Agriculture and Trade Policy), and **Prof. Betsy Wattenberg, PhD** (School of Public Health).

Sr. Vice President Frank Cerra, MD gave opening remarks. **Prof. Susan Wolf, JD** (Law School, Medical School) and **Prof. Jim Chen, JD** (Law School) acted as moderators for the day.

Conference participants were given handouts including background articles, speaker biographies, and outlines of the speakers's presentations. Videos of all presentations and links to additional background information may be found on our websites at www.jointdegree.umn.edu/conferences/envhealth.php and www.lifesci.consortium.umn.edu/conferences/envhealth.php. A symposium of articles will appear in the *Journal of Law, Medicine & Ethics*.

This event provided 7 hours of continuing legal education credit (CLE) for attorneys, 7 hours of continuing medical education credit (CME) for physicians, 7 contact hours in continuing nursing education (CNE) for nurses, and 6.5 hours of continuing education for environmental health specialists/sanitarians.

In 2004-05, the annual conference will focus on **"The Use and Abuse of Science in Politics & Regulation."** **Prof. Deborah Swackhamer, PhD** (Water Resources Center) is taking the lead in planning this event. The Consortium will again request CME, CNE, and CLE credit for the conference.



*Prof. J. Roult Reigart,
Medical University of South Carolina,
at the conference on "Environmental
Threats to Children's Health."*

LAW/VALUES + LIFE SCIENCES Newsletter

In Fall 2001, the Consortium and Joint Degree Program inaugurated their newsletter, LAW/VALUES + LIFE SCIENCES. The newsletter is distributed via e-mail and is also available on the "Newsletter" page on both the Consortium and Joint Degree websites. Each issue highlights recent developments in ethical, legal, and social issues relating to health or the life sciences at the University of Minnesota; profiles a University of Minnesota faculty member making significant contributions in these areas; and describes selected research and publications by Consortium members and Joint Degree Program faculty. The newsletter also provides program-related news and updates, announces upcoming events throughout the University, and offers links to websites of interest to readers. Readers can subscribe by filling out the form on the "Newsletter" page of either website or sending an e-mail to lawvalue@umn.edu or jointdgr@umn.edu.

In 2003-04, the newsletter profiled **Prof. Will Hueston, DVM, PhD**, Director of the Center for Animal Health & Food Safety; **Prof. Jim Chen, JD**, Director of Special Projects for the Consortium and Joint Degree Program; and **Prof. William Toscano, PhD**, Interim Director of the Center for Environment & Health Safety. Newsletters are archived at www.lifesci.consortium.umn.edu/newsletter/ and www.jointdegree.umn.edu/newsletter/.



Visiting Scholar: Prof. William Sage, MD, JD

Prof. William Sage, MD, JD, Columbia University, visited the University of Minnesota in September–October, 2003. His visit was made possible by support from the Consortium and Joint Degree Program, School of Public Health, Law School, Carlson School of Management, and Graduate School.



Prof. William Sage, Columbia University.

Prof. Sage's teaching, meetings, and presentations included:

- a talk on medical malpractice at a Department of Medicine conference for housestaff,
- a lecture on antitrust and the health care industry in Prof. Dan Gifford's seminar on Antitrust,
- a lecture on comparative professional ethics in Prof. Maury Landsman's Professional Responsibility course,
- a lecture on antitrust analysis of buyer-side behavior in Prof. E. Thomas Sullivan's Antitrust course,
- a presentation on insurance coverage and managed care in the Law School's Faculty Works-in-Progress Series,
- a professional seminar for all Joint Degree Program students, focusing on comparative professional ethics,
- a meeting with Medical School administrators regarding a patient safety curriculum,
- a lecture on economic analysis of regulation in Prof. Jim Chen's Regulated Industries course, and
- a seminar on medical malpractice in the School of Public Health.

Prof. Sage is Professor of Law at Columbia University's School of Law. He earned his MD and JD at Stanford University. He was an intern at Mercy Hospital and Medical Center in San Diego, a resident in anesthesiology and critical care medicine at the Johns Hopkins Hospital, and an associate at O'Melveny & Myers in Los Angeles before joining the Columbia faculty in 1995. His current research and teaching focus on health law, regulatory theory, antitrust, and professional responsibility. His publications include *"Regulating through Information: Disclosure Laws and American Health Care," Columbia Law Review* (1999); *"Physicians as Advocates," Houston Law Review* (1999); *"The Lawyerization of Medicine," Journal of Health Politics, Policy and Law* (2001); *"Antitrust, Health Care Quality, and the Courts," Columbia Law Review* (with Hammer, 2002); and *"A Copernican View of Health Care Antitrust," Law and Contemporary Problems* (with Hammer, 2002). He is also the Principal Investigator of the Pew Charitable Trusts Project on Medical Liability in Pennsylvania (2002–04). He has been a Visiting Professor at the University of Pittsburgh's Center for Bioethics/Health Law, Duke University School of Law, University of Neuchatel, and Tokyo University. For a full bio, see www.law.columbia.edu/faculty/full-time-fac.



Terry Brashear, Prof. Bill Sage, and Ruth Mickelsen, Esq. chat at the Fall 2003 Advisory Board reception.



Staff

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

Ann Hagen, Senior Administrative Director, joined the Joint Degree Program and Consortium in June 2000 as Program Associate. She was appointed Senior Administrative Director in December 2001. Her duties include management and administration of both programs, coordinating student applications to the Joint Degree Program, assisting current and potential students, and grants management. Ann previously worked as a legal assistant at a Chicago law firm specializing in family law litigation. She has degrees from the University of Michigan and the University of Minnesota.

Stephanie Schaffer, Program Associate, joined the Joint Degree Program and Consortium in September 2002. She is responsible for planning all Consortium and Joint Degree Program events, including lectures, meetings, conferences, and student events. Stephanie previously worked as an Event Planner for Accenture in Minneapolis. She obtained her BA in Business Administration (Management) from Southwest State University in Marshall, MN.

Terry Brashear, Information Technology Professional, joined the Joint Degree Program and the Consortium in September 2003. Terry is responsible for maintaining the websites associated with the Joint Degree Program and the Consortium and overseeing technology use. Terry previously worked as a Computer Consultant specializing in website integration and maintaining large corporate enterprise e-mail environments. He has a BS in Natural Resources and Environmental Science from the University of Minnesota.

Alexandra Glynn, Administrative Assistant, joined the Joint Degree Program and the Consortium in August 2004. She administers the *Minnesota Journal of Law, Science & Technology* and provides general administrative support for all Joint Degree Program and Consortium activities. Alexandra previously worked at the Institute on Community Integration at the University of Minnesota. She has a degree in history from the University of Minnesota and is pursuing a master's degree at Luther Seminary in Minneapolis.

Marianne Nawar served as Principal Administrative Specialist from 2002-2003. Previously, Marianne was a Purchasing Assistant for the University of Minnesota's Department of Neuroscience. She received a BS in Electrical Engineering in Summer 2003.

The Joint Degree Program and Consortium are indebted to the following Research Assistants in 2003-04:

Guillermo Avilés-Mendoza (Law), **Jennifer Gassman-Pines** (Law), **Jenna Hannigan** (Law), **Marlee Jansen** (Law), **Michelle Oyen** (Biophysical Sciences and Medical Physics), **Susan Parry** (Philosophy), **Lesli Rawles** (Law and Science, Technology & Environmental Policy), **Rebecca Trotzky-Sirr** (Engineering), and **Sarah Zeller** (Medicine and Public Health).



Joint Degree Program Staff

Front row, L to R: Dr. Lisa Jones, Ann Hagen.

Back row, L to R: Terry Brashear, Prof. Jim Chen, Prof. Susan Wolf, Prof. Colin Campbell, Stephanie Schaffer.

Not Pictured: Alexandra Glynn.



Support & Acknowledgements

The Consortium and Joint Degree Program are deeply gratified by the funding provided through the Presidential Interdisciplinary Initiative on Law and Values. We are grateful to everyone involved in planning the Initiative, especially:

- President Robert Bruininks
- Executive Associate Vice President Alfred Sullivan
- Jeanie Taylor, Associate for Presidential Initiatives
- Consortium members
- Consortium/Joint Degree Program Executive Committee
- Joint Degree Program Governing Committee
- Joint Degree Program Advisory Board

We have also been working successfully with key deans involved in the Consortium and Joint Degree Program to secure the future of these programs. Dean Robert Elde and the College of Biological Sciences have renewed the college's commitment to the Consortium and Joint Degree Program for another 3 years. Dean Mark Becker and the School of Public Health (SPH) have agreed to a new 3-year commitment. Dean Charles Muscoplat and the College of Agricultural, Food, and Environmental Sciences (COAFES) have made a new commitment to the Consortium in 2004-05. These commitments, together with the Presidential Interdisciplinary Initiative funding, will allow us to move to the forefront of programs in the United States addressing the societal implications of the life sciences and biomedicine.

The Joint Degree Program and Consortium were also indebted to the following for major support in 2003-04:

- Executive Vice President and Provost Christine Maziar
- Senior Vice President Frank Cerra, Academic Health Center
- Vice Provost and Interim Dean Victor Bloomfield, Graduate School
- Dean Alex Johnson, Law School
- Dean Robert Elde, College of Biological Sciences

In addition, we gratefully acknowledge the following targeted support:

- the Law Firm of Faegre & Benson for the Faegre & Benson Lecture Series on Law, Health & the Life Sciences
- the Law Firm of Fredrikson & Byron for the Harold M. Fredrikson Memorial Scholarship
- the Minnesota Intellectual Property Law Association (MIPLA) for a MIPLA Scholarship for 2003-04
- Professor Amos Deinard, Jr. and Miriam Kelen for the Deinard Memorial Lecture Series on Law & Medicine

We thank the following for support we received for our April 2004 conference on **"Environmental Threats to Children's Health: Legal and Policy Challenges"**:

- President's 21st Century Interdisciplinary Conference Series
- Senior Vice President Frank Cerra, Academic Health Center

We thank the following for support we received for our April 2004 symposium on **"Intellectual Property Rights for the Public Good: Obligations of U.S. Universities to Developing Countries"**:

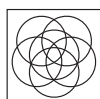
- Professor Ronald Phillips, Director, Center for Microbial and Plant Genomics
- President's 21st Century Interdisciplinary Conference Series



*Prof. Troyen Brennan,
Harvard University, speaking on
"The Crisis in Patient Safety and
Malpractice: Fixing Medicine and Law."*



*Ron Daignault, Esq. welcoming
the Advisory Board and
Joint Degree Program students
at the Fall 2003 reception.*



For additional copies of this report
or to order other publications
(past annual reports, program catalogs,
brochures, or conference materials)
please contact us:

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

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