

Annual Report
2001-2002

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

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

UNIVERSITY OF MINNESOTA

Highlights:

- First 2 JDP Graduates
- JD/MD added
- 5 New JD/MPH Programs
- New Bioinformatics Minor
- LAW/VALUES + SCIENCE Newsletter
- 3 New Consortium Members
- New Lunch Series
- NIH Haplotype Proposal
- Bioterrorism Symposium
- Pharmacogenomics Conference

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

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- 21 Lunch Series on the Societal Implications
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*Prof. Susan Wolf introduces
Prof. Neil Holtzman, the inaugural
speaker for the Lunch Series.*



*Hubert Humphrey III, Esq., Prof. Susan Wolf,
and Prof. George Annas confer following
Prof. Annas's lecture.*



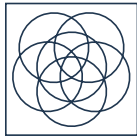
*Dr. Frank Cerra, Senior Vice President
for Health Sciences, and Dr. Greg Koski,
Director of the Dept. for Health and
Human Service's Office of Human
Research Protections, confer before
the pharmacogenomics conference.*

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

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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:

A year ago we were reeling from 9/11. By the end of October, bioterrorism had emerged on our shores. Postal workers were lined up for antibiotics. The Hart Senate Office Building had been evacuated.

Those of us who work on the legal and ethical implications of medicine and the life sciences are accustomed to debating the fine points of cloning and xenotransplantation. But 9/11 and the anthrax infections after raised different questions, whether we can prevent the abuse of technology and science and how we should respond in the event of a deliberate smallpox epidemic or other mass disaster.

The events of a year ago posed a challenge for the Consortium in Health, Environment, & the Life Sciences and the Joint Degree Program in Law, Health & Life Sciences. And we have responded. We continued to debate (as did Congress) the law and ethics of stem cell research, cloning, and other reproductive and genetic technologies; we had a spectacular roster of speakers on this in our Faegre & Benson Lecture Series on Law, Health & the Life Sciences and our new Lunch Series on the Societal Implications of the Life Sciences. We also offered a national conference on "Pharmacogenomics: The Legal, Ethical & Clinical Challenges." But we added a new symposium on "The Law and Ethics of Public Health Responses to Bioterrorism." Prof. Larry Gostin (Georgetown, Johns Hopkins Universities) presented his Model State Emergency Health Powers Act funded by the Centers for Disease Control. Prof. Michael Osterholm, Director of the University's Center for Infectious Disease Research & Policy, a new Consortium member, articulated the public health challenge. And commentators including Minnesota's Commissioner of Health Jan Malcolm led the debate. Our roster of events for 2002-03 will focus primarily on issues in public health.

We have meanwhile strengthened our capacity to lead on issues of law and values in the life sciences. The Joint Degree Program graduated its first 2 students and admitted 5 more. We added 5 new MPH programs with the School of Public Health, an MD program with the Medical School, and worked with the Graduate School to permit "ad hoc" degree combinations. The Consortium added 3 member centers to bring the total to 12, inaugurated a newsletter, and submitted an NIH grant application on haplotype mapping. The Consortium helped support work across the broader University by awarding 4 faculty grants, 6 student grants, and 5 grants to centers for a total of over \$80,000.

The disasters of a year ago held many lessons. To us, they spoke of the huge challenges posed by the life sciences, technology, and public health in the 21st century. How do we assure that the capacity to genetically alter pathogens is used for good not ill? How do we prevent mass disasters? And if we fail, how do we respond in a way that protects human life but also respects human rights?

These vital questions now preoccupy those of us considering the broad societal implications of problems in health, environment, and the life sciences. Those questions rank among the most challenging of our time.



Prof. Susan Wolf.



*Prof. Colin Campbell, Assoc. Director
of the Joint Degree Program,
introducing Prof. Andrea Bonnickson
at the Lunch Series.*

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

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 12 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 outside the Joint Degree Program. 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. The Joint Degree Program spans 8 collegiate units plus the Center for Bioethics and involves more than 400 faculty members. The 12 graduate and professional programs working with the Law School are: **Community Health Education** (School of Public Health); **Conservation Biology** (College of Biological Sciences, College of Natural Resources); **Ecology, Evolution, and Behavior** (College of Biological Sciences); **Environmental Health** (School of Public Health); **Epidemiology** (School of Public Health); **Health Services Research, Policy & Administration** (School of Public Health); **Maternal & Child Health** (School of Public Health); **Medicine** (Medical School); **Molecular, Cellular, Developmental Biology & Genetics** (College of Biological Sciences); **Pharmacology** (Medical School); **Public Health Administration** (School of Public Health); and **Science, Technology & Environmental Policy** (Hubert H. Humphrey Institute of Public Affairs).

Joint Degree Program students pursuing an MS or PhD through the Graduate School are now eligible to complete a graduate minor in Bioinformatics or Bioethics. The University approved the new graduate minor in Bioinformatics (www.binf.umn.edu) in 2001-02. Bioinformatics is an interdisciplinary research area that applies computer and information science to solve biological problems. The Bioethics minor, administered by the Center for Bioethics (www.bioethics.umn.edu/education/postgraduate.html), is designed for students interested in deepening their knowledge of the ethical issues surrounding health care and biomedical science.

The Consortium on Law and Values

The Consortium on Law and Values in Health, Environment & the Life Sciences now coordinates among and builds on the strengths of 12 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 tackle interdisciplinary questions that are difficult for any one program to tackle alone. The 12 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 Prof. Harry Orr (laboratory medicine, pathology);
- **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);
- **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. Ken Sexton (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).

With the Joint Degree Program and Consortium, the University of Minnesota aims to make a public difference. Through the Joint Degree Program we are instilling in our students a new appreciation for the importance of values and the possibilities of rigorous thinking across disciplines. Through the Consortium and its constituent programs we are pioneering a new kind of cross-disciplinary work fully marrying legal, ethical, and scientific expertise.



Prof. Michael Osterholm, Director of the Center for Infectious Disease Research & Policy, speaks at the symposium on bioterrorism.



Prof. Catherine Verfaillie, Director of the Stem Cell Institute, comments on the lecture by Prof. Lori Andrews.





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

UNIVERSITY OF MINNESOTA

Students, Recruitment + Scholarships

The Joint Degree Program graduated its first 2 students in 2002. Jeannine Thiele and Robert Goetz each received a JD and MS in Molecular, Cellular, Developmental Biology & Genetics (MCDB&G). They are now employed in the Minneapolis office of Fredrikson & Byron and the Wisconsin office of Medlen & Carroll.



In 2001-02, we had 9 students pursuing the following degree combinations:

- JD/MS in MCDB&G (Trevor Copeland, Robert Goetz, Jeannine Thiele)
- JD/PhD in Pharmacology (Jonathan Hareid, Lisbeth Robinson)
- JD/MS in Pharmacology (Glenna Gilbert)
- JD/MS in Science, Technology & Environmental Policy (Ben Coler, Melanie Kleiss)
- JD/PhD in Conservation Biology (Collette Adkins Giese)

Collette Adkins Giese was awarded the Law School's third Joint Degree Program scholarship in Fall 2001. Jonathan Hareid was awarded the Harold M. Fredrikson Memorial Scholarship in 2001-02, provided by the law firm of Fredrikson & Byron. Lisbeth Robinson was awarded a prestigious Graduate Fellowship to support her first year of Graduate School as well as one of the Law School's 2 non-resident tuition waivers, bringing tuition down to resident levels. Melanie Kleiss was awarded a Research Assistantship (RA) and scholarship in the Humphrey Institute.

*Front row L to R:
Lisbeth Robinson, Melanie Kleiss,
Jeannine Thiele, Trevor Copeland
Back row L to R:
Robert Goetz, Collette Adkins Giese,
Ben Coler, Glenna Gilbert, Jon Hareid.*

In the Fall of 2002 we are welcoming 5 more students pursuing the following degree combinations: JD/PhD in MCDB&G; JD/MS in Pharmacology; JD/MS in Health Services Research, Policy & Administration; JD/MS in Science, Technology & Environmental Policy; and JD/MPH in Public Health Administration. We have worked closely with the Joint Degree Program graduate and professional programs to recruit these impressive applicants and arrange financial support.

Our incoming student seeking the JD/PhD in MCDB&G has been awarded the Joint Degree Program scholarship for 2001. Our incoming JD/MPH student in Public Health Administration has been awarded the Harold M. Fredrikson Memorial Scholarship for 2002-03 and a full scholarship from the School of Public Health. Our incoming student seeking the JD/MS in Health Services Research, Policy & Administration has been awarded a scholarship donated by Rotary District 5950 for 2002-03. Our incoming student seeking the JD/MS in Science, Technology & Environmental Policy has been awarded a non-resident tuition waiver for her law studies.

The Law School awards one full scholarship annually to a Joint Degree Program student. In addition, the Law School awards a reduction in tuition (from nonresident to resident rates) to up to 2 Joint Degree Program students per year. The School of Public Health makes available at least one full tuition scholarship per year to Joint Degree Program students. The Medical School will waive nonresident tuition rates for at least 3 JD/MD students and is committed to seeking scholarship funds for Joint Degree Program students.

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



Joint Degree Program Proseminar

The Joint Degree Program Proseminar was inaugurated in 2000-01. Entitled "Law, Health & the Life Sciences: Joint Degree Program Proseminar," Law 6875 is 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. This one-credit pass/fail seminar 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 2001, the Proseminar was led by Dr. Jonathan Kahn, Prof. Susan Wolf, and Prof. Colin Campbell.

The schedule featured:

- Prof. Susan Wolf on cloning
- Prof. Colin Campbell on pharmacogenomics
- Prof. Jeffrey Kahn on human subjects research
- Prof. Susan Foote on Medicare policy on coverage of new medical technologies
- Prof. Harry Orr on DNA in criminal proceedings
- Dr. Jonathan Kahn on genomic patents
- Mark Rotenberg, Esq. on patents and the Ziagen AIDS drug
- Prof. Susan Craddock on public health emergencies
- Prof. Ken Sexton on environmental justice
- Prof. Kenneth Keller on the politics of global environmental negotiation
- Prof. Jamie Grodsky on individual susceptibility to environmental insults
- Prof. John Wagner on preimplantation genetic diagnosis and stem cell research



Profs. Leon Rosenberg, Princeton University, and Mark Rothstein, University of Louisville, talk prior to the pharmacogenomics conference.

National Human Genome Research Institute (NHGRI) Grant

The Joint Degree Program and the Center for Bioethics are completing work on a 2-year \$413,912 grant from the National Human Genome Research Institute to study genetic testing and disability insurance. While the role of genetic testing in health insurance and to some extent life insurance has been studied, there is no such analysis of disability insurance. The project is making a comprehensive investigation of the ethical, legal, and policy issues raised by the use of genetic information in private and public disability insurance.

The Joint Degree Program and Center have convened a national working group comprised of experts working on the issues raised by genetics, insurance, and disability. The Working Group met most recently in May 2002. The Center for Bioethics and Joint Degree Program will host an invitational national conference on the issues on March 14, 2003.

Through the conference and efforts of the Working Group, the Joint Degree Program and Center aim to clarify the issues and develop a consensus on effective responses. The project will produce a report offering recommendations and will publish the first comprehensive collection of articles on these questions.



Prof. John Wagner (pediatrics) comments on the Faegre & Benson lecture by Prof. George Annas, Boston University.



Joint Degree Program Faculty + Governing Committee

The Joint Degree Program Faculty

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

Susan M. Wolf, JD, 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. 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 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. Professor Wolf is the author or coauthor of numerous articles and book chapters. She directed the Hastings Center project that produced the influential book, *Guidelines on the Termination of Life-Sustaining Treatment and the Care of the Dying* (Indiana University Press, 1987), and is editor of a volume entitled *Feminism & Bioethics: Beyond Reproduction*, published in 1996 by Oxford University Press. She writes frequently on death and dying, genetics, assisted reproduction, women's health care, managed care, and other topics in health law and bioethics.

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 an Executive Faculty member of the University of Minnesota Biomedical Genomics Center.

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.

Jonathan D. Kahn, JD, PhD, was Research Associate to the Joint Degree Program and Consortium in 2001-02. He was also an Adjunct Professor at the University of Minnesota Law School and a Center Associate at the Center for Bioethics. He received his JD from Boalt Hall School of Law in 1988 and his PhD in history from Cornell University in 1992. His research focuses on the legal recognition and construction of individual identity in a variety of contexts and the impact of genomics. Dr. Kahn published his book, *Budgeting Democracy: State-Building and Political Culture in the United States, 1890-1928*, in 1997 and has published in journals including the *Hastings Law Journal*, *Cardozo Arts & Entertainment Law Journal*, and *Journal of Urban History*. In the Summer of 2002 he became a Senior Research Fellow to the Consortium and Research Scholar at the Center for Bioethics.

Lisa Jones, PhD, became Research Associate to the Joint Degree Program and Consortium in Fall 2002. 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. 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 most recent publications include: University-Industry Research Collaborations (*The Encyclopedia of Education*, in press); Attitudes and Behaviors of Academic Scientists: Industry Relationships, Sharing, and Withholding (*American Scientist*, 2002); and Entrepreneurs, Secrecy, and Productivity (*Journal of Technology Transfer*, 2001).

Prof. Ken Keller, Humphrey Institute of Public Affairs, responding to the lecture by Prof. George Annas.



Governing Committee

In 2001-02 members of the Governing Committee were:

Donald N. Alstad, PhD, is Professor in the Department of Ecology, Evolution, and Behavior and was Director of Graduate Studies in 2001-02. He is also Professor of Conservation Biology. His research explores questions at the interface of population ecology and evolutionary genetics. He specializes in the evolution and population ecology of insects, effects of selection and gene flow on adaptation and specificity in insect herbivores, and distribution and community ecology of filtering caddis flies. He is a regular participant in the Center for Community Genetics. He received his doctorate at the University of Utah. In 2002-03, **Prof. Claudia Neuhauser, PhD**, will serve on the Governing Committee as Director of Graduate Studies for the Ecology, Evolution, and Behavior graduate program.

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, and forest bird conservation. 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 a MS from Georgia State University. He teaches health services research methods in the doctoral and master's programs in the Division.

John R. Finnegan Jr., PhD, is Professor and Associate Dean for Academic Affairs in the School of Public Health. He represents the 5 MPH programs and School of Public Health on the Governing Committee. He recently served as chair (1999-2002) of the Health Communication Division of the International Communication Association. His primary research interests are community campaigns, health communication, and mass communication and public health. Recent research projects have involved serving as Principal Investigator of the REACT Study, a community intervention to reduce patient delay in seeking care for heart attack, and as Co-investigator of Project Northland, an intervention to reduce adolescent onset of alcohol use. He received his PhD in Mass Communication from the University of Minnesota.

Robert Goetz, JD, MS, is a 2002 graduate of the Joint Degree Program, with a JD plus an MS in Molecular, Cellular, Developmental Biology & Genetics. Mr. Goetz was elected by the Joint Degree Program students to represent them on the Governing Committee in 2001-02. He began his law studies in 1999 and enrolled in the Graduate School in 2000. During Summer 2001 he worked at the Chicago-based law firm of Roper & Quigg, primarily on patent litigation. He now works at Medlen & Carroll, a biotechnology patent prosecution and litigation firm located in Madison, WI. He received his BA in Psychology and premedical studies from the University of Minnesota.

Jeffrey P. Kahn, PhD, MPH, is Professor of Medicine and Director of the Center for Bioethics. He also 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, he writes the bi-weekly column "Ethics Matters" on CNN Interactive (CNN.com). 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 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 and Technology 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 for 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.



Prof. Elizabeth Wattenberg



Prof. Jeffrey Kahn



Assoc. Dean John Finnegan



Assoc. Dean Meredith McQuaid



Meredith M. McQuaid, JD, is Associate Dean of Students and Director of International and Graduate Programs in the Law School. She supervises the LLM program for foreign lawyers and oversees exchange programs as well as joint degree programs for Law School students. She currently serves on the University of Minnesota China Advisory Board, and is a consultant to the Open Society in New York, which assists in the foreign scholar selection process for the Edmund S. Muskie Program. She received her JD cum laude at the University of Minnesota Law School.

Sharon L. Reich Paulsen, JD, is Associate Dean for Administration, Legal Writing, Moot Court, and Trial Practice in the Law School. 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 Hon. 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 also currently serves as Co-chair of the Women in the Legal Profession committee of the Minnesota State Bar Association, and as a member of the Committee on Bar Admissions and Lawyer Performance of the Association of American Law Schools.

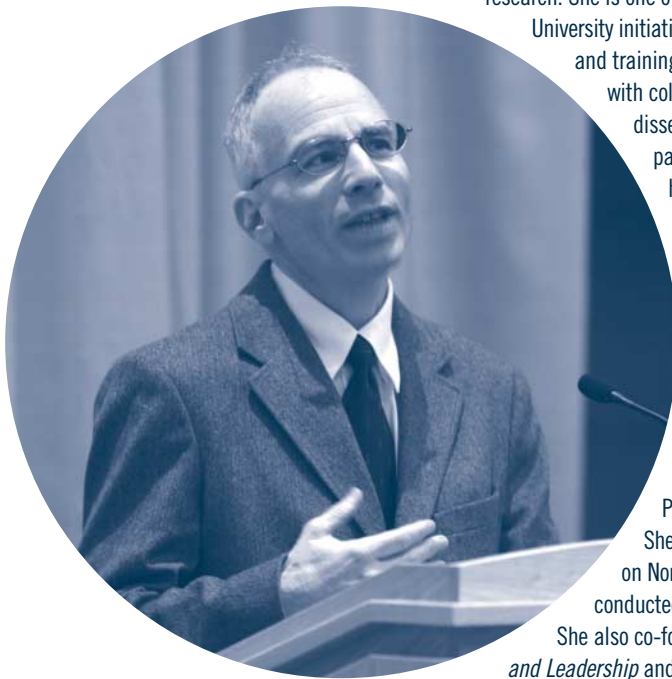
Naomi B. Scheman, PhD, is Professor of Philosophy and Women's Studies and Associate Dean of the Graduate School. Prof. Scheman serves as the liaison between the Graduate School and the Joint Degree Program. Her recent work focuses on the role that social responsibility and social justice ought to play in the conceptualization and practice of university research. She is one of the co-creators of GRASS (Grass Roots Activism, Sciences, and Scholarship) Routes, a new University initiative; its mission is to support university/community partnership research through education and training, helping community organizations find compatible University research partners, working with collaborative research teams when they experience conflict or roadblocks, and assisting with dissemination of research findings in ways that will be useful and empowering to community partners and to faculty and graduate students. She received her BA from Barnard College and her doctorate from Harvard University.

J. L. David Smith, PhD, is Professor in the Department of Fisheries & Wildlife and the Co-Director of Graduate Studies for the Conservation Biology Program. His research interests include the biology and conservation of Asian mammals, conservation databases, ecosystem management, and the metapopulation structure of large mammals in relation to landscape patterns. For almost 20 years, he has studied the behavior and ecology of tigers on the Indian subcontinent, specifically tiger social organization and dispersal patterns. He received his doctorate at the University of Minnesota.

Melissa M. Stone, PhD, is Associate Professor at the Hubert H. Humphrey Institute of Public Affairs and served as Director of Graduate Studies for the Humphrey Institute in 2001-02. She specializes in nonprofit management and has served as Associate Director of the Yale Program on Nonprofit Organizations. As founder of Family Connection in Anchorage, AK, Professor Stone conducted statewide and national workshops on organizational planning and social policy development. She also co-founded Alaska Youth Advocates. She is currently an Associate Editor of *Nonprofit Management and Leadership* and is also a member of the Head Start Management Panel of Experts. She has a doctorate in organizational behavior from Yale University. In 2002-03, **Prof. Nancy Eustis, PhD**, will serve as Director of Graduate Studies and represent the Humphrey Institute on the Governing Committee.

Margaret A. Titus, PhD, is Associate Professor in the Department of Genetics, Cell Biology, and Development and Director of Graduate Studies for 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.

Prof. Larry Gostin, Georgetown University and Johns Hopkins University, discusses the Model Emergency Health Powers Act at the Consortium's symposium on bioterrorism.

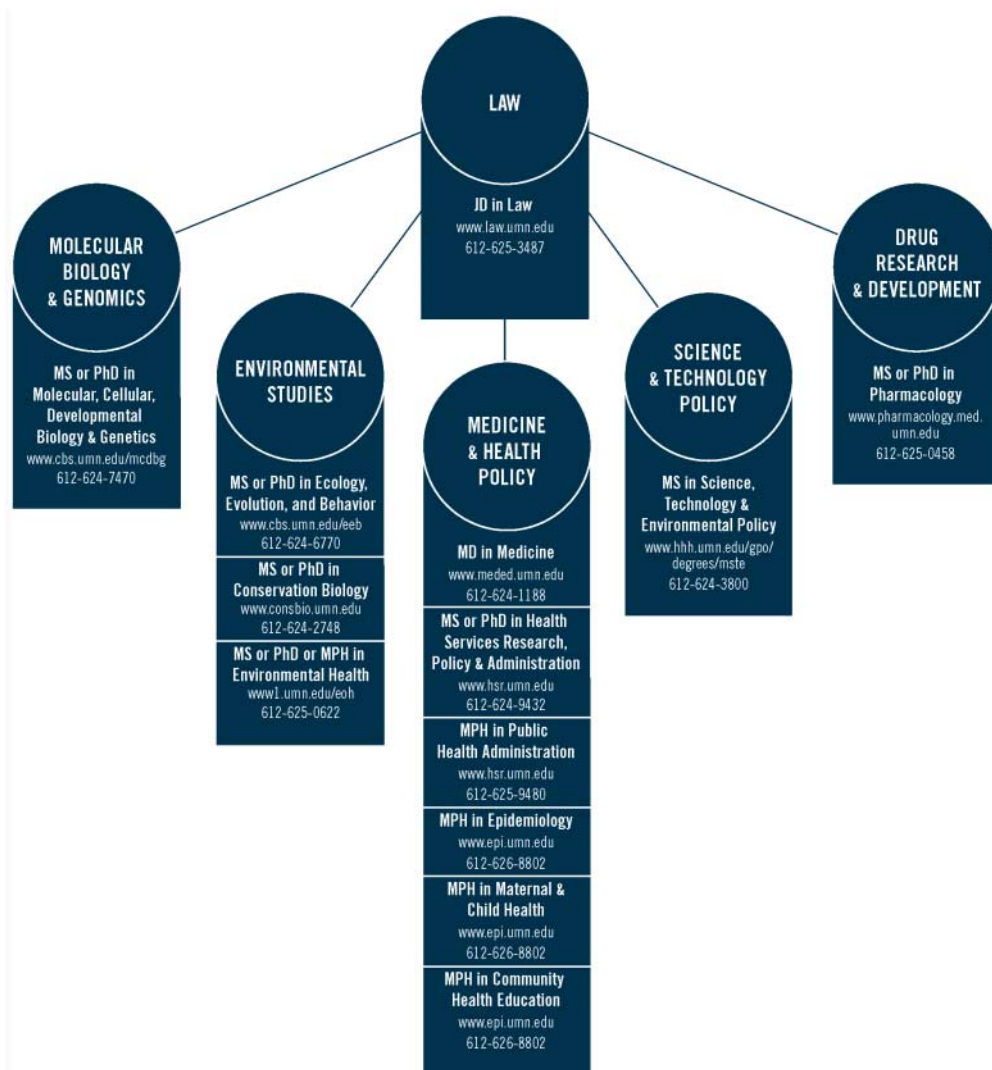


Elizabeth V. Wattenberg, PhD, is Professor and Director of Graduate Studies in the Division of Environmental and Occupational Health in the School of Public Health. Her laboratory investigates the molecular mechanisms by which carcinogenic agents interfere with the signaling pathways that control cell 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 a BS from Yale University and her doctorate from the Massachusetts Institute of Technology.

In 2002-03, the Medical School's Associate Dean for Student Affairs, **Helene Horwitz, PhD**, will be joining the Governing Committee with the addition of the JD/MD degree option. Dean Horwitz oversees student services and 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 is currently serving as a member of the national Committee on Student Affairs of the AAMC.



Audience at "The Law and Ethics of Public Health Responses to Bioterrorism."



Structure of the Joint Degree Program.



Beyond the core group of faculty members directly involved in Joint Degree Program governance, a larger roster of faculty members is available to work with our students:

Law

Befort, Stephen F.
Burk, Dan L.
Burkhart, Ann M.
Chen, Jim
Cooper, Laura J.
Farber, Daniel A.
Gifford, Daniel J.
Grodsky, Jamie A.
Marshall, Donald G.
McGowan, David
Morrison, Fred L.
Wolf, Susan M.

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

Ahrens, Mary Ellen Jarvis
Anderson, Dwight L.
Baker, Janice Anne
Baldinger, Shari R.
Bardwell, Vivian J.
Behrens, Timothy W.
Berman, Judith G.
Berry, Susan A.
Boland, Linda M.
Brambl, Robert M.
Brooker, Robert J.
Burns, Linda Hammer
Conklin, Kathleen F.
Conrad, Beth Ann.
Couch, Vicki L.
Coucovanis, Electra C.
Ekker, Stephen C.
Elde, Robert Philip
Faras, Anthony J.
Fine, Bianca Maria
Fuchs, James A.
Furcht, Leo T.
Gantt, James Stephen
Garza, Judy
Goldstein, Stuart F.
Gregerson, Dale S.
Gustin, Joy Ann
Hackett, Perry B.
Hagen, Vickie Lynn M.
Hamilton, David W.
Hatten, Bonnie Ann
Hays, Thomas S.
Herman, Robert K.
Herzberg, Mark C.
Hirsch, Betsy A.

Hogquist, Kristin A.
Hordinsky, Maria Kramarc
Iwanij, Victoria
Jameson, Stephen
Johnson, Ross Glenn
King, Richard Allen
Kirkpatrick, David T.
Krishnamurti, Lakshmanan
Kuriyama, Ryoko
Largaespada, David A.
Lefebvre, Paul A.
Leroy, Bonnie S.
Letourneau, Paul C.
Levayyoung, Brett K.
Linck, Richard W.
Livingston, Dennis M.
Ludowese, Carol J.
Magee, Paul T.
Mantyh, Patrick W.
Mariash, Cary N.
Marks, Michael D.
McCarthy, James
McIvor, R. Scott
McLoon, Steven C.
Mendelshon, Nancy J.
Mescher, Matthew F.
Miller, Jeffrey R.
Nelson, Katherine Ann
Neufeld, Thomas Peter
O'Connor, Michael B.
Olszewski, Neil E.
Orr, Harry T.
Peters, Charles
Petzel, Sue
Phillips, Ronald L.
Pierpont, Mary Ella M.
Porter, Mary E.
Qiu, Yun
Ranum, Laura P.
Roberts, Kenneth P.
Roggenbuck, Jennifer Ann
Rougvie, Ann E.
Rubin, Karol R.
Schottel, J.
Shaw, Jocelyn E.
Shawlot, William
Shimizu, Yoji
Silflow, Carolyn
Simmons, Michael J.
Simon, Jeffrey A.
Sinha, Akhouri A.
Skubitz, Amy P.

Snustad, Donald P.
Somia, Nikunj V.
Sorenson, Robert L.
Spear, Alysia Bemus
Steer, Clifford John
Titus, Margaret Ann
Towle, Howard C.
Van Ness, Brian G.
Veach, Patricia McCarthy
Verfaillie, Catherine Marie
Vockley, Catherine Walsh
Voneschen, Maryann
White, James G.
Whitley, Chester B.
Wick, Susan Mary
Zarkower, David

Ecology, Evolution, and Behavior

Alstad, Donald Norman
Andow, David
Barnwell, Franklin
Beatty, John H.
Brezonik, Patrick
Corbin, Kendall W.
Cotner, James Bryan
Curtsinger, James W.
Cushing, Edward J.
Dean, Antony Michael
Frelich, Lee E.
Galatowitsch, Susan Marie
Goldstein, Stuart F.
Hobbie, Sarah E.
Johnson, Thomas C.
King, Jennifer Y.
Kinkel, Linda Lee
Lanyon, Scott M.
Larson, Diane
Lehman, Clarence L.
May, Georgiana
McFadden, Joseph P.
Mech, L. David
Megard, Robert O.
Morrow, Patrice Ann
Neuhauser, Claudia M.
Newman, Raymond M.
Oberhauser, Karen S.
Packer, Craig
Pastor, John
Polasky, Alan Stephen
Pusey, Anne Elizabeth
Regal, Philip Joe
Reich, Peter B.

Sadowsky, Michael Jay
Shaw, Ruth Geyer
Simmons, Michael J.
Simons, Andrew
Sinha, Akhouri A.
Siniff, Donald B.
Sorensen, Peter W.
Starfield, Anthony M.
Stephens, David W.
Stern, Robert W.
Stromberg Jr, Bert E.
Sugita, Shinya
Tilman, G. David
Weller, Susan J.
Zink, Robert Martin

Conservation Biology

Adelman, Ira Robert
Alstad, Donald Norman
Andersen, David E.
Anderson, Dorothy H.
Andow, David
Archibald, Sandra Orr
Barnwell, Franklin
Bauer, Marvin E.
Beatty, John H.
Bell, James Crawford
Bengston, David
Blinn, Charles Robert
Bolstad, Paul V.
Bowyer, James Louis
Brooks, Kenneth Norman
Brown, Dwight Alan
Burk, Thomas E.
Cardwell, Vernon B.
Coggins, Jay Steven
Cohen, Yosef
Corbin, Kendall W.
Cunningham, William P.
Curtsinger, James W.
Cushing, Edward J.
Cuthbert, Francesca J.
Duke, Gary E.
Easter, Kenneth William
Elhalawani, M. E.
Ellefson, Paul Vernon
Fiutak, Thomas R.
Frelich, Lee E.
Fulton, David C.
Galatowitsch, Susan Marie
Garshelis, David L.
Haight, Robert G.
Holt, Robert T.

Holzenthal, Ralph W.
Homans, Frances R.
Jannett, Frederick J.
Jordan, Peter Albion
Kapuscinski, Anne
Lanyon, Scott M.
Larson, Diane
Mech, L. David
Morrow, Patrice Ann
Nelson, Kristen C.
Neuhauser, Claudia M.
Newman, Raymond M.
Niemi, Gerald John
Oberhauser, Karen S.
Perry II, James A.
Philippon, Daniel J.
Polasky, Alan Stephen
Pusey, Anne Elizabeth
Redig, Patrick Thomas
Reed, Catherine C.
Regal, Philip Joe
Reich, Peter B.
Runge, Carlisle Ford
Samatar, Abdi Ismail
Shaw, Ruth Geyer
Simmons, Steve Robert
Simons, Andrew
Siniff, Donald B.
Smith, James Lavalley
Sorensen, Peter W.
Spangler, George R.
Squires, Roderick H.
Starfield, Anthony M.
Stern, Robert W.
Tilman, G. David
Tilson, Ronald Lewis
Vondracek, Bruce
Zink, Robert Martin

Environmental Health

Adgate, John L.
Alexander, Bruce H.
Bender, Alan
Brosseau, Lisa M.
Carpenter, Hillary M.
Church, Timothy Robert
French, Lewis Ronald
Gerberich, Susan Goodwin
Goyal, Sagar M.
Greaves, Ian A.
Hedberg, Craig W.
Holtzman, Jordan L.
Lungu, Claudiu T.



Maldonado, George
Mandel, Jeffrey H.
Marbury, Marian C.
McCullugh, Nicole Vars
McGovern, Patricia M.
Messing, Rita Bailey
Olson, Debra Kay
Parker, David Lewis
Peterson, Lisa A.
Phillips, Carl V.
Ramachandran, Gurumurthy
Raynor, Peter Cameron
Roy, Robert Russell
Sexton, Ken William
Simcik, Matt Francis
Skoglund, Robert Sven
Sparber, Sheldon B.
Swackhamer, Deborah L.
Toscano Jr, William A.
Vesley, Donald
Wattenberg, Elizabeth V.

Medicine

A complete list of Medical School Faculty may be found in the Medical School Catalog on-line at: www.1.umn.edu/commpub/tcmed/med.html.

Health Services Research, Policy & Administration

Abraham, Jean Marie
Begun, James W.
Bershadsky, Boris
Blewett, Lynn Ann
Call, Kathleen Thiede
Christianson, Jon B.
Connor, Robert A.
Dahl, N. Tor
Dowd, Bryan E.
Feldman, Roger Dean
Finch, Michael D.
Foote, Susan Bartlett
Garrard, Judith
Grant, Leslie Alan
Holtzman, Jeremy L.
Johnson, George O.
Jonk, Yvonne Catharina Maria
Kane, Robert L.
Kane, Rosalie A.
Kralewski, John E.
Lurie, Nicole
McAlpine, Donna D.
McBean, Alexander Marshall

Moscovice, Ira S.
Nyman, John A.
Parente, Stephen Thomas
Potthoff, Sandra J.
Radosevich, David M.
Resnick, Michael D.
Riley, William J.
Rockwood, Todd H.
Speedie, Stuart M.
Town, Robert James
Virnig, Beth A.
Weckwerth, Vernon E.
Wholey, Douglas R.
Wilson, Amy Reed

Public Health Administration

Baizerman, Michael L.
Block, Lester E.
Blum, Robert W.
Brown, Judith E.
Garrard, Judith
Garwick, Ann E.
Gerberich, Susan Goodwi
Grant, Leslie Alan
Hellerstedt, Wendy Lynn
Jeffery, Robert W.
Leonard, Barbara J.
McBean, Alexander Marshall
McGovern, Patricia M.
Patterson, Joan M.
Resnick, Michael D.
Schacht, Lee E.
Spradley, Barbara Ann
Veninga, Robert L.
Williams, Carolyn L.

Epidemiology and Community Health Education

Anderson, Kristin Ellen
Arnett, Donna
Atwood, Larry D.
Bender, Alan
Blackburn Jr, Henry Webster
Bushhouse, Sally Ann
Church, Timothy Robert
Crow, Richard Stewart
Danila, Richard Norman
Davis, Marsha A.
Desvarieux, Moise
Duval, Susan Joy
Finnegan Jr, John R.
Folsom, Aaron Robert
Forster, Jean Lois
French, Simone

Gatewood, Lael C.
Grimm, Richard H.
Gross, Myron D.
Gurney, James G.
Hannan, Peter J.
Harnack, Lisa J.
Hedberg, Craig W.
Hellerstedt, Wendy Lynn
Hennrikus, Deborah Jane
Himes, John H.
Hull, Harry F.
Jacobs Jr, David Richard
Jeffery, Robert W.
Jones-Webb, Rhonda J.

Kane, Robert L.
Komro, Kelli A.
Lando, Harry A.
Lazovich, Deann
Leon, Arthur S.
Lifson, Alan Raymond
Luepker, Russell V.
Lytle, Leslie Ann
Maldonado, George
McBean, Alexander Marshall
McGovern, Paul Gerard
Mertens, Ann C.
Neglia, Joseph
Neumark-Sztainer, Dianne R.
Oakes, John Michael
Osterholm, Michael T.
Pankow, James Scott
Perry, Cheryl L.
Pirie, Phyllis L.
Robison, Leslie L.
Ross, Julie Ann
Rosser, Brian Robert
Schmitz, M. Kathryn
Schreiner, Pamela
Sellers, Thomas A.
Shahar, Eyal
Steffen, Lyn M.
Story, Mary T.
Sweeney, Carol
Toomey, Traci L.
Van Ryn, Michelle
Virnig, Beth A.
Wagenaar, Alexander C.
Welles, Seth L.
Williams, Carolyn L.

Maternal & Child Health

Brown, Judith E.
Davis, Marsha
Desvarieux, Moise
Finnegan, John
Forster, Jean
French, Simone
Hellerstedt, Wendy
Hennrikus, Deborah
Himes, John
Jacobs, David
Jones-Webb, Rhonda J.
Komro, Kelli
Krinke, Bea
Lando, Harry
Luepker, Russell
Lytle, Leslie
Neumark-Sztainer, Diane
Oakes, J. Michael
Patterson, Joan
Perry, Cheryl
Pirie, Phyllis
Story, Mary
Williams, Carolyn

Science, Technology & Environmental Policy

Archibald, Sandra O.
Keller, Kenneth H.

Pharmacology

Burton, Frank H.
Campbell, Colin R.
Connell, Gregory J.
Dunham, Earl Wayne
Eisenberg, Richard M.
Elde, Robert Philip
Elfakahany, Esam Eldin
Fine, Bianca Maria
Fitzakerley, Janet Lyn
Hanna, Patrick E.
Hecht, Stephen S.
Hiasa, Hiroshi
Holtzman, Jordan L.
Hunninghake, Donald
Knych Jr, Edward T.
Lange, Carol Ann
Law, Ping Yee
Lee, Hon Cheung
Loh, Horace H.
Marchant, Jonathan
Messing, Rita Bailey
Pei, Duanqing
Pentel, Paul R.

Portoghese, Philip
Qiu, Yun
Regal, Jean F.
Romero, Daniel Patrick
Roy, Sabita
Seybold, Virginia S.
Shebuski, Ronald John
Sinaiko, Alan R.
Sladek, Norman E.
Sparber, Sheldon B.
Sundaram, Ramakrishnan
Thayer, Stanley A.
Trachte, George J.
Wallace, Kendall
Walseth, Timothy F.
Wattenberg, Elizabeth V.
Wei, Li Na
Wickman, Kevin D.
Wilcox, George Latimer
Wood, Wellington Gibson
Yee, Douglas

Center for Bioethics

Bartels, Dianne
Bebeau, Muriel
Burk, Dan
Cranford, Ronald
Crisham, Patricia
DeBruin, Debra
DeVries, Raymond
Elliott, Carl
Kahn, Jeffrey P.
Kahn, Jonathan
Kane, Rosalie
Liaschenko, Joan
Mayo, David
Miles, Steven
Plotnikoff, Gregory
Ratner, Ed
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 including:

Peter Bachman, JD, is the Executive Director of the Minnesota Center for Environmental Advocacy (MCEA), one of the nation's premier state-based environmental advocacy groups. He is a leading advocate for better environmental protection in Minnesota, particularly in areas of public health, water quality, land use, and wildlife and natural resources. Prior to joining MCEA in 1995, he practiced environmental and governmental law for 13 years, including serving as legal counsel to the Metropolitan Council, special counsel to the City of Minneapolis for land use matters, and at Leonard, Street and Deinard, PA, as private counsel to numerous units of government, large corporations and developers in land use and environmental matters. He is the founder of the Minnesota Environmental Partnership, a coalition of over 70 Minnesota environmental and conservation organizations. Mr. Bachman received a BA in philosophy from the University of Minnesota and a JD cum laude from William Mitchell College of Law.

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. 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 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.

Mark Ellinger, JD, PhD, is a Principal in the Twin Cities office of Fish & Richardson PC, one of the country's largest intellectual property law firms. 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, 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.

Konrad J. Friedemann, JD, Fredrikson & Byron, PA, helped establish the firm's Health Law Practice Group and is a member of the Medicare Fraud and Compliance Group. He chaired the firm's Health Law Group for 10 years. He is also a member of Fredrikson & Byron's Nonprofit Group and Business & Tax Planning Group. He chairs the firm's Business Division and serves on its Board of Directors and Executive Committee as an Executive Vice President. He represents a wide variety of health care clients, ranging from hospitals and physician groups to HMOs. He has extensive experience in corporate work, joint ventures, regulatory compliance and investigations, and contracting, including managed care contracting. Mr. Friedemann received his JD from the University of Michigan.

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 currently also serves as the President of the 600+ member Minnesota Intellectual Property Law Association (MIPLA). Mr. Goldman received his JD from William Mitchell College of Law and his MS from Colorado State University.



Advisory Board Members

Front L to R: Philip Goldman, Esq.;

Rep. Phyllis Kahn; Prof. Susan Wolf;

Kenneth Liebman, Esq.

Back L to R: Margo Struthers, Esq.;

Winthrop Rockwell, Esq.;

Ronald Daignault, Esq.;

Debra Shetka, Esq.; Ann Russell, Esq.



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 GCI Tunheim, and a former 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.

Rep. Phyllis Kahn, PhD, MPA, is a member of the Minnesota Legislature serving her 15th 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 served on many national committees, particularly in the field of science and public policy and is an elected Fellow of the American Association for the Advancement of Science (AAAS). 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.

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 is also 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. Mickelson, JD, MPH, is Vice President of Ethics and Compliance for Allina Hospitals and Clinics, a nonprofit health care organization that includes community and tertiary care hospitals and a multi-clinic physician organization. Allina is headquartered in Minneapolis. She has been an Adjunct Professor of Health Law at the University of Minnesota Law School and William Mitchell College of Law. 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 member of the Advisory Board of the Minnesota Center for Bioethics and a legal advisor to the Minnesota Center for Healthcare Ethics. Ms. Mickelson 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. Mickelson received her JD from William Mitchell College of Law and her MPH from Harvard University.

Winthrop A. Rockwell, JD, Faegre & Benson LLP, concentrates on commercial and product liability litigation. He is head of Faegre & Benson's General Litigation Group, which concentrates on agribusiness litigation, appellate practice, data practices litigation, drug and device litigation, the energy industry, environmental litigation, insurance, media/First Amendment litigation, and privacy. Mr. Rockwell served 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 Fellow of the British-American Project founded by the Royal Institute of International Affairs and the Johns Hopkins University School of Advanced International Studies. Mr. Rockwell received his AB from Dartmouth College in 1970 and his JD from New York University in 1975.

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, the White House staff, and heads of the Executive Departments. Mr. Rotenberg served as a law clerk to Hon. 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 an Adjunct Professor at the University of Minnesota Law School.



Mark Rotenberg, Esq.



Ruth Mickelsen, Esq.



Hubert Humphrey, III, Esq.





Panelists Prof. Catherine Verfaillie and Prof. Jeffrey Kahn listen as Prof. Lori Andrews answers a question from the audience.

Ann L. Russell, JD, MSW, Hennepin County Attorney's Office, is a lawyer with 15 years of experience providing legal advice to academic medical centers. She has represented the University of Minnesota Hospital and Clinic and currently advises Hennepin County Medical Center and Community Health Department. She has extensive experience in teaching and advising health care providers who are dealing with ethical dilemmas. She is currently a member of the Ethics Committees for the Fairview University Health Center and Hennepin County Medical Center. She also serves on the Advisory Board of the University of Minnesota Center for Bioethics. Prior to practicing law, Ms. Russell was a psychiatric social worker in the Hennepin County Mental Health Center for 10 years. She received her JD from the University of Minnesota and her MSW from the University of Denver.

Paul Savereide, JD, PhD, is a Senior Attorney at Cargill, Inc., specializing in intellectual property law. 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 and Whitney law firm. Mr. Savereide earned both his PhD in Cell and Developmental Biology and his JD from the University of Minnesota. He is a member of the Minnesota Bar and is registered to practice before the United States Patent and Trademark Office as a Patent Attorney.

Debra A. Shetka, JD, is a partner in the Palo Alto office of Morrison & Foerster, LLP. 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 has been involved in key Federal Circuit appeals addressing the patentability of DNA sequences. 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 Hon. Daniel M. Friedman, U.S. Court of Appeals for the Federal Circuit.

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 entities, medical manufacturers, and integrated delivery systems. Her practice involves organizational structure and other issues affecting nonprofit, professional, and business organizations in health care. She is past Chair of the Minnesota State Bar Association Health Law Section, a member of the American Health Lawyers Association, and 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.



jointdegree.umn.edu

The Joint Degree Program's website has been live for 2 years. The site offers a description of each degree combination along with a semester-by-semester sample plan; courses that count in both the Law School and Graduate School, School of Public Health, or Medical School; faculty lists; and complete application information. The site also contains video and information from all of our conferences and lectures. The "Careers" page profiles selected individuals who have combined a law degree with an MS, PhD, MPH, or MD and have built distinguished careers. The "Links" page features extensive links to law firms, government agencies, trade organizations, professional associations, and journals of interest to students and faculty involved in the Joint Degree Program.





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, the Consortium links leading centers and programs at the University of Minnesota to do the same. The member centers and programs are:

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, 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, Associate Professor of Veterinary Pathobiology and Microbiology, the Center is learning how to apply 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** 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.

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 a 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.

The **Center for Infectious Disease Research & Policy** (www1.umn.edu/cidrap/) is led by Prof. Michael Osterholm, Professor of Epidemiology in the University's School of Public Health. The Center's mission is to support the development of and refine 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 that aim at reducing illness and death from infectious diseases.

CENTER *for*
BIOETHICS

UNIVERSITY OF MINNESOTA



Center *for*
Infectious Disease
Research & Policy

CIDRAP





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.



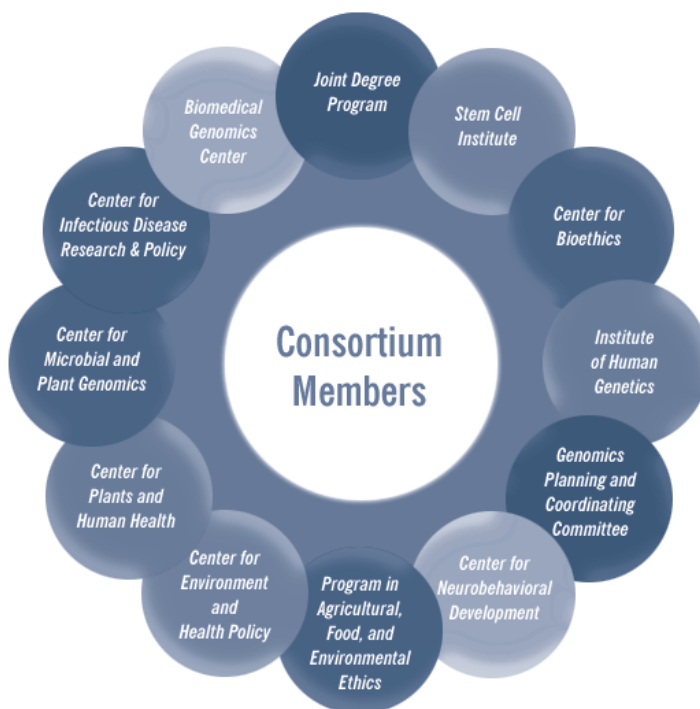
The **Center for Environment and Health Policy** (www1.umn.edu/eoh/policy) works to use research, education, and outreach to foster informed, reasonable decisions about protecting the environment and human health. The Center's goals are four-fold: to promote rational, well-reasoned, and credible environmental 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. The Center is directed by Prof. Ken Sexton, Richard G. Bond Chair, Division of Environmental and Occupational Health, School of Public Health.



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 agriculture. 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 Dan Philippon, Assistant Professor in the Department of Rhetoric, and Associate Dean Beverly Durgan in the College of Agricultural, Food, and Environmental Sciences.



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 issued 3 Requests for Proposals (RFP) in Spring 2002. One was for University of Minnesota faculty, one was for programs/departments/centers, and one was for graduate and professional students. We made 15 awards in 2001-02, for a total of \$80,777.

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. We received 11 applications involving 38 faculty members from roughly 23 departments and programs. The Consortium made 4 awards:

- **Conference on "Medicine, Culture, Power: Medical Anthropology for the 21st Century"**
Profs. Susan Craddock (Dept. of Women's Studies, Institute for Global Studies), Jean Langford (Dept. of Anthropology), and Karen-Sue Taussig (Depts. of Anthropology, Medicine) (\$10,000 awarded)
- **"Patents versus Patients? Ethics, Markets, and Pharmaceutical Pricing Policies"** Prof. Susan Craddock (Dept. of Women's Studies, Institute for Global Studies) (\$10,000 awarded)
- **"Environmental Politics in Japan"** Prof. Jeffrey Broadbent (Dept. of Sociology) (\$9850 awarded)
- **"News Coverage of Drugs in Development: Need for a Cure?"** Prof. Gary Schwitzer (School of Journalism and Mass Communication) (\$9967 awarded)

Programs/Departments/Centers

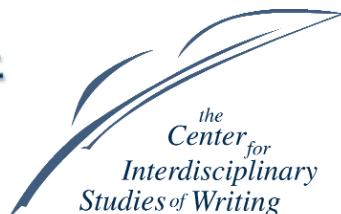
The RFP for programs/departments/centers invited proposals seeking matching funds for colloquia addressing the societal implications of problems in health, environment, or the life sciences. We made 5 awards:

- Minnesota Center for the Philosophy of Science, 2002-03 lectures in the **Studies of Science and Technology Colloquium Series** (\$3020 awarded).
Prof. C. Kenneth Waters, Director.
- Center on Aging, 2002-03 colloquium series on **"The Implications of Translating Research Into Practice for an Aging Society"** (\$1980 awarded).
Prof. Robert Kane, Director.
- Institute for Mathematics and Its Applications, workshop on **"Operational Modeling and Biodefense: Problems, Techniques, and Opportunities"** September 28, 2002 (\$1000 awarded).
Prof. Douglas Arnold, Director.
- Center for Austrian Studies, 22nd Annual International Conference: **"The Environment and Sustainable Development in the New Central Europe: Austria and Its Neighbors"** September 2002 (\$1000 awarded).
Prof. Gary Cohen, Director.
- Center for Interdisciplinary Studies of Writing, Conference on **"Good Writing = Strong Medicine: Dr. Susan Love's Prescriptions for Better Health"** Spring 2003 (\$1000 awarded). Prof. Lillian Bridwell-Bowles, Director.

October 16-18, 2002
**MEDICINE
CULTURE
POWER**



Dr. John Hick, Hennepin County Medical Center; Rep. Thomas Huntley; and Prof. Susan Craddock (Dept. of Women's Studies and Institute for Global Studies) confer prior to the symposium on bioterrorism.





University President Mark Yudof offers opening remarks at the Consortium's symposium on bioterrorism.

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 2002 or academic year 2002-03 and reimbursement of research-related expenses. The RFP stimulated 51 proposals from students in 32 programs around the University, including several programs on the Duluth campus. Six awards were made:

- **"Arguing Global Warming: The Reception and Uses of Climate Change Science in Public Policy Debates"** Robert Hinrichs, PhD student, Communication Studies (\$5000 awarded)
- **"Conservation in Community Space: Common Property and Forest Management Post-Fire in Lagos de Monte Ballo National Park, Chiapas, Mexico"** Kris A. Johnson, PhD student, Conservation Biology (\$5000 awarded)
- **"Tracking as a Bridge Between Environmental Ethics & Conservation Science"** Jon Poppele, PhD student, Conservation Biology (\$6960 awarded)
- **"A Life of the Dead: Personal Data and Surveillance in Everyday Life"** Gauti Sigthorsson, PhD student, Cultural Studies and Comparative Literature (\$3000 awarded)
- **"Imperialism, Domestication and Diet: The Impact of U.S. Nutrition Standards on American Indian Communities"** Fernando Aguirre-McKibbin, Jr., PhD student, American Studies (\$6000 awarded)
- **"Indigenous Rights Claims in the Amazon Basin: Scale, Environment, and Identity in Northeastern Ecuador"** Gabriela Valdivia, PhD student, Geography (\$7000 awarded)

Bioterrorism Symposium



**The Law and Ethics of
Public Health Responses
to Bioterrorism**

UNIVERSITY OF MINNESOTA

In response to 9/11, the Consortium sponsored a half-day symposium on The Law and Ethics of Public Health Responses to Bioterrorism. This event on January 29, 2002 featured Prof. Larry Gostin (Georgetown/Johns Hopkins Universities), Prof. Nicki Pesik (Emory University), and Prof. Michael Osterholm (Director, Center for Infectious Disease Research & Policy, University of Minnesota). Commentators included Senior Vice President for Health Sciences Frank Cerra (Academic Health Center); Prof. Susan Craddock (Department of Women's Studies, Institute for Global Change); John Hick, MD (Hennepin County Medical Center); MN Rep. Thomas Huntley; Prof. Eric Janus (William Mitchell College of Law); Prof. Jeffrey Kahn (Center for Bioethics, Medical School); Commissioner Jan Malcolm (Minnesota Department of Health); and Terry O'Brien, Esq. (former Minnesota Assistant Attorney General).

This symposium provided a major public forum for the discussion of the Model Emergency Health Powers Act, commissioned by the federal Centers for Disease Control and Prevention (CDC) and drafted by Prof. Gostin's Center for Law and the Public Health. A version of the Act was introduced in the 2002 Minnesota legislature by Rep. Huntley. Symposium participants considered the legal and public health implications of state action involving aggressive triage, isolation and quarantine, compelled treatment, and access to private medical records, among other public health measures. Participants grappled with how to reconcile the legal system's traditional emphasis on individual rights with the public good in times of crisis.

Additional support for the symposium was provided by the University's Academic Health Center, Minnesota Medical Foundation, and School of Public Health.



National Institutes of Health (NIH) Grant Application



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

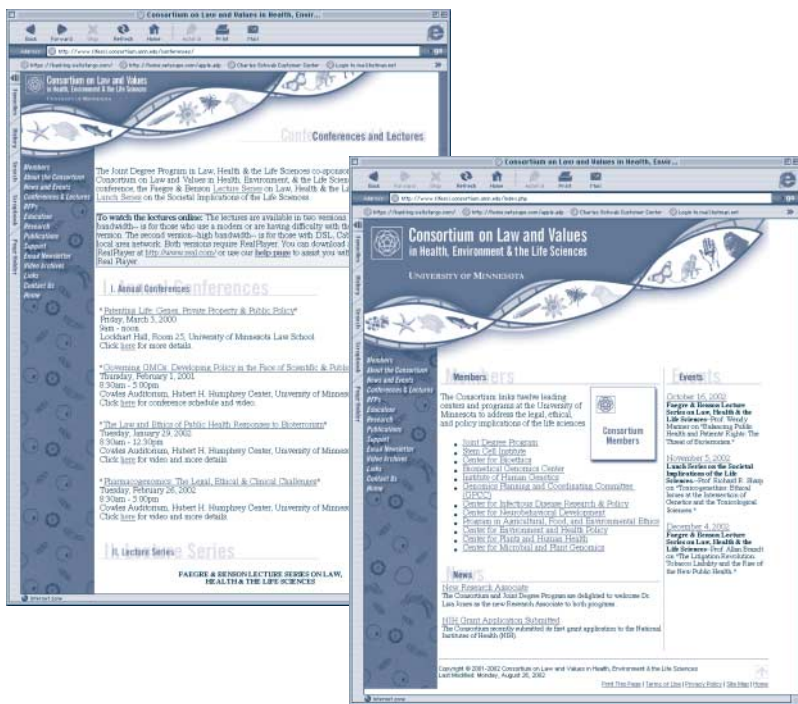
The Consortium submitted a grant application to NIH in July 2002. If funded, this project will examine the legal, ethical, and policy implications of biological categories likely to emerge from the effort to create a haplotype map of the human genome. The project will be led by researchers in the Consortium and 3 of its member centers: the Center for Bioethics, Biomedical Genomics Center, and Institute of Human Genetics. The project will also utilize a Working Group of scholars drawn from across the nation with expertise in law, pharmacology, human genetics, public health, anthropology, environmental health, sociology, and history.

lifesci.consortium.umn.edu

The Consortium website went on-line in the Fall of 2001. The site 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. The website also serves as a gateway to the 12 members of the Consortium, including their news, events, research, and publications. The "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. The "Conferences and Lectures" and "Video Archives" pages feature video of Consortium-sponsored events. Grant winners and reports on their projects are listed on the "RFPs" page. The "Newsletter" page displays the current issue of the newsletter and offers links to past issues.



Mr. Arthur Holden, First Genetic Trust, Inc. and Chairman of The SNP Consortium, Ltd., presenting at the pharmacogenomics conference.





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



*Prof. George Annas
Boston University.*

Thanks to a generous gift from the law firm of Faegre & Benson, the Joint Degree Program and the Consortium inaugurated the Faegre & Benson Lecture Series on Law, Health & the Life Sciences in the Fall of 2000. The Series sponsors 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 focus for the 2001-02 Lecture Series was the revolution under way in genetic, reproductive, and stem cell technologies.

Wednesday, October 10, 2001

Prof. George Annas of Boston University presented **"Regulating Reproduction, Replication & Research: Governing IVF, Stem Cells, Cloning & Germline Genetics."** Prof. Annas is the Edward R. Utley Professor and Chair of the Health Law Department at Boston University. Prof. Annas focused on the novel legal issues that have been raised by rapid advances in reproductive medicine and genetics, including IVF, stem cell research, cloning, and germline genetics. He argued that legislatures have failed to deal with these issues, while judges have met with limited success. He recommended specific legislative action on the state, federal, and international levels. **Prof. Kenneth Keller** of the Humphrey Institute and **Prof. John Wagner** of the Stem Cell Institute provided faculty commentary.



*Prof. Lori Andrews,
Chicago-Kent College of Law.*

Wednesday, November 28, 2001

Prof. Lori Andrews of Chicago-Kent College of Law presented **"Embryo Stem Cell Policy: The Intersection of Values, Science, and Law."** Prof. Andrews is Director of the Illinois Institute of Technology's Institute for Science, Law and Technology, and a Distinguished Professor of Law at Chicago-Kent College of Law. She is also a Senior Scholar of the Center for Clinical Medical Ethics at the University of Chicago. Prof. Andrews discussed the debate over embryonic stem cell research. Because there is no social, moral, or legal accord on the status of the embryo, tremendous controversy surrounds this area of research. Prof. Andrews analyzed the controversy and applicable state and federal law. She also addressed concerns about coercion, informed consent, and privacy in the use of embryo stem cells. **Prof. Jeffrey Kahn**, Director of the Center for Bioethics, and **Prof. Catherine Verfaillie**, Director of the Stem Cell Institute, provided faculty commentary.



*Prof. Don Wolf, Oregon Health Sciences
University and Oregon Regional
Primate Research Center.*

Wednesday, April 10, 2002

Prof. Don Wolf presented **"The Revolution in Sexual and Asexual Reproduction: Does It Lead to Cloning?"** Prof. Wolf is Senior Scientist at the Oregon Regional Primate Research Center, and Professor in the Department of Obstetrics and Gynecology and Department of Physiology and Pharmacology at Oregon Health Sciences University. Prof. Wolf led the team that first cloned a monkey. In his lecture, he provided a comprehensive review and analysis of the development of cloning technology. He assessed the significance of possible legal bans on therapeutic and/or reproductive cloning. He also considered the relationship between cloning and embryonic stem cell research. He argued that it is premature to consider reproductive cloning in humans and legal restrictions should be in place. He did, however, defend therapeutic cloning to create embryos for stem cell harvest. **Prof. Susan M. Wolf** of the Law School, Medical School, Joint Degree Program, and Consortium and **Prof. Christopher De Jonge** of the Reproductive Medicine Center provided faculty commentary.



Our Lecture Series in 2002-03 will focus on public health issues. Our lecturers will be **Prof. Wendy Mariner**, Professor at Boston University's School of Public Health, School of Law, and School of Medicine presenting "**Balancing Public Health and Patients' Rights: The Threat of Bioterrorism**" on Oct. 16, 2002; **Prof. Allan Brandt**, Amalie Moses Kass Professor of the History of Medicine at Harvard Medical School presenting "**The Litigation Revolution: Tobacco Liability and the Rise of the New Public Health**" on Dec. 4, 2002; and **Prof. Ronald Bayer**, Professor of Public Health and Co-Director of the Program in the History of Medicine and Public Health at Columbia University presenting "**Restrictions on Privacy, Autonomy & Liberty: Lessons from Infectious Disease Control**" on Apr. 9, 2003. All lectures begin at 11:30am in the Law School's Lockhart Hall (Room 25), are followed by faculty commentary, and conclude at 1:00pm when the invited lunch begins in the Law School Dean's Conference Room.

Lectures are generally archived on our websites at www.jointdegree.umn.edu and www.lifesci.consortium.umn.edu.



Prof. Andrea Bonnickson gave the third lecture in the Lunch Series on the Societal Implications of the Life Sciences.

Lunch Series on the Societal Implications of the Life Sciences

In 2001-2002 the Joint Degree Program and Consortium inaugurated a highly successful Lunch Series on the Societal Implications of the Life Sciences. We presented 4 national speakers lecturing to and meeting with faculty, students, and community members. All lectures were standing-room only. The Lunch Series speakers were:

September 25, 2001

Prof. Neil Holtzman, is Professor of Pediatrics at the Johns Hopkins University School of Medicine and Professor of Health Policy at the Johns Hopkins School of Hygiene and Public Health. Prof. Holtzman presented "**Is There a Genetic Test in Your Future? Would You Want One?**" He argued that the current regulatory framework in the United States fails to require developers of genetic testing services to collect information on predictive value before they market tests. Moreover, the quality of laboratories providing these services is not adequately assured. For many diseases, predictive genetic tests will be available long before therapies for the disease, and the consequences of this "therapeutic gap" will be far greater if genetic tests reach the clinical market without adequate clinical validation.



Prof. Neil Holtzman, Johns Hopkins University.

December 13, 2001

Prof. John A. Robertson, Vinson and Elkins Chair, University of Texas School of Law, presented "**Is There a Case for Reproductive Cloning?**" Prof. Robertson distinguished between therapeutic and reproductive human cloning, noting that the former did not involve the highly controversial process of actually creating a human child. He chose reproductive cloning as the focus for his lecture because of the powerful and significant ethical issues it raises. Prof. Robertson argued that as a necessary precondition to any consideration of human cloning, scientists must clearly establish the safety of the procedure. This is essential as a basic mark of respect and consideration both for the status of the embryo and for the parents. Until such conditions are met, he asserted that a moratorium on human reproductive cloning would not be unreasonable. He also argued that proper guidelines limiting reproductive cloning to infertile couples would also protect and respect the rights of the future child, because such a child would be wanted, chosen, and loved like any other.



Prof. John Robertson, University of Texas School of Law.





Prof. Andrea Bonnickson,
Northern Illinois University.

January 24, 2002

Prof. Andrea Bonnickson, Chair, Political Science Department, Northern Illinois University, presented “From Laboratory to Clinic: Issues in the Oversight of Innovative Reproductive Technologies.” Prof. Bonnickson considered how we can develop more systematic oversight of innovative assisted reproductive technologies (ARTs) as they move from the laboratory to the clinic. She argued that although ART innovation now takes place in a private setting, it is open to procedural reform through ethics advisory boards and other mechanisms. Prof. Bonnickson used 2 case studies — cloning by somatic cell nuclear transfer and ooplasmic transplantation to create a child with 3 genetic parents — to explore how to make private sector innovation more accountable and open.

March 14, 2002

Prof. Troy Duster presented “Human Molecular Genetics and the Subject of Race: Contrasting Theory and Rhetoric with Practical Applications in Law and Medicine.” Prof. Duster is Director of the American Cultures Center at the University of California, Berkeley and Professor of Sociology at New York University. He discussed the fact that scientists across a range of disciplines have declared that the concept of race is of no utility. He argued, however, that purging science, medicine, and clinical genetics of this deeply embedded idea will be clearly difficult. For example, in medicine, the new field of pharmacogenomics is attempting to use DNA profiles based in part on ethnicity and race to guide the development and delivery of drugs. In law, forensic science is moving ahead to use genetic markers to determine whether a criminal suspect is from a particular ethnic or racial group. Prof. Duster’s presentation focused on the social and political implications of these recent developments in medicine and law that show the continuing power of the concept of race.

In 2002-03, the Lunch Series will focus on public health issues:

- Prof. Edward Larson, University of Georgia; “The Meaning of Human Gene Therapy for Disability Rights: The Rise of a New Eugenics?,” September 17, 2002; 12:15-1:15pm; Weisman Art Museum’s Shepherd Room.
- Prof. Richard Sharp, National Institutes of Health (NIH) and Baylor College of Medicine; “Toxicogenethics: Ethical Issues at the Intersection of Genetics and the Toxicological Sciences,” November 5, 2002; 12:15-1:15pm; Mondale Hall, Room 25.
- Prof. Wendy Parmet, Northeastern University School of Law; “Shifting Visions of Disability: Public Health, Law & Ethics,” February 6, 2003; 12:15-1:15pm; Weisman Art Museum’s Shepherd Room.
- Prof. Robert Bullard, Clark Atlanta University, “Poverty, Pollution & Public Health: Strategies for Building Just and Sustainable Communities,” March 11, 2003; 12:15-1:15pm; Weisman Art Museum’s Shepherd Room.

Video of the Lunch Series is generally archived at www.jointdegree.umn.edu and www.lifesci.consortium.umn.edu.



LAW/VALUES + SCIENCE Newsletter

In Fall 2001 the Consortium and Joint Degree Program issued their first newsletter. The quarterly newsletter is distributed via email and is also available on the “Newsletter” page on both websites. Each issue highlights recent developments in ethical, legal, and social issues relating to health or the life sciences at the University of Minnesota and elsewhere; profiles a University of Minnesota faculty member making significant contributions in these areas; and describes selected research and publications by Consortium members or 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.



Annual Conference



Each year the Joint Degree Program and Consortium co-sponsor a full-day conference. This year's topic was **Pharmacogenomics: The Legal, Ethical & Clinical Challenges**. An invitational dinner preceded the event with remarks by Prof. Jeffrey Kahn, Director of the University of Minnesota's Center for Bioethics. The February 26, 2002 conference then evaluated the promise and problems of drug development by genotype, examining protocol design, consumer access, government regulation, legal liability, racial profiling, and insurance. Featured speakers included Prof. Leon Rosenberg, MD (Princeton University); Arthur Holden (CEO of First Genetic Trust); Prof. Richard Merrill, MA, LLB (University of Virginia); Greg Koski, MD, PhD (Director, Office of Human Research Protections, U.S. Department of Health and Human Services); Prof. Patricia King, JD (Georgetown University); Prof. Mark Rothstein, JD (University of Louisville); and Prof. Richard Weinshilboum, MD (Mayo Clinic Foundation). Senior Vice President for Health Services Frank Cerra provided the opening remarks. Commentators included University of Minnesota faculty and one state representative: Prof. James Cloyd (College of Pharmacy), Prof. Stella Davies (Medical School), Prof. Carl Elliott (Center for Bioethics), Prof. Jeffrey Kahn (Medical School, Center for Bioethics), MN Rep. Phyllis Kahn, Prof. Bonnie LeRoy (Medical School), Prof. Harry Orr

(Institute of Human Genetics), Mark Rotenberg, Esq. (Office of the General Counsel), Prof. Stephen Schondelmeyer (College of Pharmacy), Dean Marilyn Speedie (College of Pharmacy), Prof. Rick Wagner (College of Pharmacy), and Prof. Susan Wolf (Law School, Medical School, Joint Degree Program, Consortium). Video from the conference is archived on-line at www.jointdegree.umn.edu and www.lifesci.consortium.umn.edu.

Additional sponsors for the Pharmacogenomics conference included the University of Minnesota's Academic Health Center, College of Pharmacy, Medical School, College of Biological Sciences, Law School, Center for Bioethics, Biomedical Genomics Center, MD/PhD Program, and Cancer Center.



Senior Vice President Frank Cerra welcomes pharmacogenomics conference attendees.



Prof. Susan Wolf at the conference on pharmacogenomics.

Support

The Joint Degree Program and Consortium were indebted to the following for major support in 2001-02:

- Executive Vice President and Provost Robert Bruininks
- Vice President and Dean Christine Maziar, Graduate School
- Senior Vice President Frank Cerra, Academic Health Center
- Dean E. Thomas Sullivan, 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
- Rotary District 5950 for a scholarship in 2002-03

We thank the following for support we received for our January 2002 symposium on "The Law and Ethics of Public Health Responses to Bioterrorism:"

- Academic Health Center
- School of Public Health
- Minnesota Medical Foundation

We appreciate support we received from the following for our February 2002 annual conference on "Pharmacogenomics: The Legal, Ethical & Clinical Challenges:"

- Academic Health Center
- College of Pharmacy
- Medical School
- College of Biological Sciences
- Law School
- Center for Bioethics
- Biomedical Genomics Center
- MD/PhD Program
- Cancer Center



Prof. Leon Rosenberg, Princeton University, discusses "The Pharmacogenomics Revolution & Societal Implications" at the annual conference.



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.



*L to R: Sil Kim, Ann Hagen,
Susan Wolf, John Sugimura,
Jon Kahn, Nick Spilman.*

Sil Kim served as Principal Administrative Specialist from July 2001–August 2002. She received her BA in an independent major titled “Writing Across Cultures” from St. Olaf College’s Paracollege and then went on to work as a technical writer and translator for 3 years. Sil recently graduated from the University of Minnesota’s Department of English with an MFA in creative fiction writing.

Stephanie Schaffer, Program Associate, joined the Joint Degree Program and Consortium in September 2002. Stephanie had previously worked for Accenture as an Event Planner. She obtained her BA in Business Administration (Management) from Southwest State University in Marshall, MN.

Nicolas Spilman, Information Technology Professional, joined the Joint Degree Program and Consortium in August 2001, splitting his time between our programs and the Law Information Technology Service. Nick earned his bachelor’s degree in computer science at the University of Minnesota. He previously worked for Accenture’s Minneapolis office as a software analyst.

John Sugimura served as Program Associate from February–July 2002. John spent 3 years in public service working for the City of Minneapolis in the Mayor’s Office. Prior to that, he spent several years advocating on behalf of children and their families served by the Head Start program in Minnesota. John received his BA in Mass Communications from the University of Minnesota’s School of Journalism & Mass Communication.

The Joint Degree Program and Consortium are indebted to the following Research Assistants in 2001–02:

Stacy Hauer, Sally Mermelstein, Susan Parry, Alexis Pheiffer, Lisbeth Robinson, Ben Schneider, Elizabeth Stuva, Michelle Wernimont, and Daniel Yan.



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

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