What is the Shared Vision for Medical Device Development in the State of Minnesota?
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WEDNESDAY APRIL 7
MEMORIAL HALL, McNAMARA ALUMNI CENTER, UNIVERSITY OF MINNESOTA

8:00 - 9:30 Welcome and Introduction
Arthur G. Erdman, Conference Chair, University of Minnesota
Paul A. Iaizzo, Program Chair, University of Minnesota

Session 1:
What are the roles in industry to direct and enhance research and development of technologies at the University?

Jeffrey McCullough, Moderator, Director, Biomedical Engineering Institute
Fred McCoy, President, Cardiac Rhythm Management, Guidant
Michael McQuade, Vice President, Medical Division, 3M
Peter Gove, Vice President, Corporate Relations, St. Jude Medical
Dale Wahlstrom, Vice President and General Manager, Medtronic

10:00-11:30 Session 2:
What are the roles of government policy in basic medical device research at the research university and in technology transfer to industry?

David Durenberger, Moderator, Chairman, National Institute of Health Policy
Donna-Bea Tillman, Office of Device Evaluation, Food & Drug Administration
Susan B. Foote, Health Services Research / Policy, U. of Minnesota
Richard Bianco, Asst. Vice President of Research, U. of Minnesota

12:00-1:30 Session 3 Working Lunch:
How should cutting edge basic or applied research developed within the university best be interfaced with the medical device industry?

David Hamilton, Moderator, Interim Vice President of Research, U. of Minnesota
Lynn Elliott, Vice President, Research, Cardiac Rhythm Management, Guidant
Jagjit Gill, Vice President of Research and Development, Boston Scientific
Arthur G. Erdman, Department of Mechanical Engineering, University of Minnesota
2:00-3:30  **Session 4:**
*What are the roles of the University to ensure that newly developed technologies optimally benefit: health care delivery, the education of our bioengineers, future health care providers and or society in general?*

Christine Maziar, *Moderator*, Executive President & Provost, U. of Minnesota
Susan Wolf, Chair, Consortium on Law and Values in Health, U. of Minnesota
David Page, Chief Executive Officer, Fairview Health Systems
Deborah Powell, Dean of the Medical School, U. of Minnesota
H. Ted Davis, Dean of the Institute of Technology, U. of Minnesota

4:00-5:30  **Session 5:**
*What are the roles of state and local government, research foundations and the private sector in funding the research and development of medical devices at the research university: what works best and when?*

Remarks: Robert Bruininks, President, University of Minnesota

Frank Cerra, *Moderator*, Senior Vice President, Academic Health Center, U. of Minnesota
Tim Laske, Senior Director, Cardiac Rhythm Management, Medtronic
Hugh Smith, Vice President, Chair of the Board of Governors, Mayo Clinic
Randy Kelly, Mayor, City of St. Paul, Minnesota
R. T. Rybak, Mayor, City of Minneapolis, Minnesota

5:30-7:00  **Cocktail Reception**  Johnson Room, McNamara Alumni Center

7:00-9:00  **Keynote Dinner Presentation**  Honorable Former Governor Arne Carlson

**Introduction:**  Frank Cerra, Senior Vice President, U. of Minnesota

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Richard W. Bianco is Assistant Vice President of Regulatory Affairs for the University of Minnesota. In this capacity he oversees the Research Subjects Protection Program the administrative home of both the Human Subjects Committees and the Animal Care And Use Committees. He also serves as the Institutional Official for the Animal Care Program. Mr. Bianco is also responsible for conflict of interest management for the Academic Health Center.

Frank Cerra, Senior Vice President for health sciences at the University of Minnesota, leads one of the largest and most comprehensive academic health centers in the United States. An accomplished researcher as well as administrator and clinician, he is co-developer of the bioartificial liver, a device similar to a kidney dialysis machine.

H. Ted Davis, Regents Professor and Dean of the Institute of Technology. Appointed Dean of the Institute of Technology in November 1995. Davis received a bachelor’s degree in chemistry from Furman University and a doctorate in chemical physics from the University of Chicago. He joined the University of Minnesota faculty in 1963 and became head of the Department of Chemical Engineering and Materials Science in 1980.

David F. Durenberger, Former U.S. Senator from Minnesota, served from 11/78 to 1/95. Graduated from the University of Minnesota Law School. Currently the Chair of the National Institute of Health Policy.

Lynn Elliott, Vice President, Research, Cardiac Rhythm Management, Guidant Corp. Lynn has a B.S. in electrical engineering from the South Dakota School of Mines & Technology. He earned a master of science in software engineering from the University of St. Thomas.

Arthur G. Erdman, specializes in kinematics, biomechanics and medical device design. His research and development activities include dentistry, orthopedics, neurology, urology, MR-guided instruments, cardiology and sports biomechanics.

Susan B. Foote, Associate Professor and Division Head of Health Services Research and Policy in the School of Public Health at the University of Minnesota. Earned a JD degree from University of California, Berkeley. Research focuses on the influences of public policies on health care services with an emphasis on innovation in medical technology.

Jagjit Gill is the Director of New Market Development for Boston Scientific. In this role, he is focused on identifying and cultivating new technologies or therapies in order to augment the strategic growth within the cardiovascular group. Jagjit has completed formal training in the medical sciences at the Mayo Clinic, Georgetown Medical Center and McGill University.

Peter Gove is Vice President, Corporate Relations, St. Jude Medical, Inc. He is responsible for global corporate communications, government relations, reimbursement and is the Company
spokesman. He serves on the Board of Directors of the Medical Technology Leadership Forum and Medical Alley, is active in the Advanced Medical Technology Association and also is the interim chair of the University's Biomedical Engineering Industry Advisory Committee. He also serves on the boards or advises three development stage companies. Mr. Gove is a graduate of Princeton University and the Stanford University Executive MBA program.

David W. Hamilton has been Interim Vice President for Research at the University of Minnesota since July 15, 2002. He is responsible for the oversight and administration of an externally funded research program of over $500 million on the four campuses of the University of Minnesota system. Dr. Hamilton received his bachelor’s degree from Harvard University, his master’s degree from the University of Kansas and his doctoral degree from Cambridge University, England. He was the Lawrence J. Henderson Associate Professor of Health Sciences and Technology at Harvard and MIT before joining the University of Minnesota as Head of the Department of Cell Biology and Neuroanatomy in 1977, a position that he held for 18 years. Dr. Hamilton’s area of research expertise is in the molecular and cellular biology of sperm function and fertilization.

Paul A. Iaizzo, Professor, Department of Surgery with joint appointments in Anesthesiology and Physiology, specializes in applied physiology and outcomes research. He is on the graduate faculties in Biomedical Engineering, Neuroscience and Physiology and is also the Director for Education for the Lillehei Heart Institute.

Tim G. Laske, Ph.D, Senior Director of Product Platform Research and Technology for Medtronic Inc.’s Cardiac Rhythm Management business. Dr. Laske has a Bachelor of Science degree in both Biological Bases of Engineering and Mechanical Engineering from Michigan Technological University. He received his Masters degree in Mechanical Engineering from the University of Michigan, Ann Arbor, and recently completed his PhD in Biomedical Engineering at the University of Minnesota. His doctoral research was centered on the use of isolated working hearts (the “Visible Heart” www.visibleheart.com) in the design of medical devices. He is active in supporting the development of Minnesota as a center of excellence in medical devices and biotechnology.

Christine M. Maziar has been Executive Vice President and Provost at the University of Minnesota since July 15, 2002. In this position, she serves as the University’s chief academic officer and is directly responsible for all colleges and academic units on the Twin Cities campus except those in the Academic Health Center, as well as a number of non-academic units. Dr. Maziar is a graduate of Purdue University, where she earned bachelors, master’s and PhD degrees in electrical engineering.

Jeffrey McCullough, M.D., has a distinguished career as one of the world’s leaders in transfusion medicine and blood banking. Dr. McCullough is the Professor of Laboratory Medicine and Pathology, Industry Children’s Association Chair in Molecular and Cellular Therapy; and Director of the Biomedical Engineering Institute at the University of Minnesota.

David R. Page, President and Chief Executive Officer, Fairview Health Services. Mr. Page received a Bachelor’s Degree in Economics from Davidson College (Davidson, NC) in 1982 and a Master’s Degree in Hospital Administration from Duke University (Durham, NC) in 1984. Mr. Page was named President and CEO of Fairview Health Services in July 1998. In January 2003, Mr. Page received the Minnesota Hospital Association’s Stephen Rognness Distinguished Service Award. In 1997, he was awarded the American College of Healthcare Executives Regent’s Award for Senior Healthcare Executives. In addition, Mr. Page has served as a guest lecturer at the LSU School of Nursing and Adjunct Professor of Management at the University of North Carolina-Asheville for Health Care Administration.

Deborah E. Powell, M.D., is Dean of the Medical School and Assistant Vice President for Clinical Sciences at the University of Minnesota. Dr. Powell is a board-certified surgical pathologist and medical educator with more than 30 years of experience in academic medicine. She received her medical degree from Tufts University School of Medicine and completed her residency training at Georgetown University Medical Center and the Clinical Center of the National Institutes of Health (NIH).

R. T. Rybak, Mayor of Minneapolis, Minnesota. Chairman of the Board of Minneapolis Lifescience Corridor. R. T. Rybak was elected Mayor of Minneapolis in November of 2001 in his first run for public office with 65 percent of the vote. Since he took office in January of 2002, Mayor Rybak has streamlined the City's development functions, created a $10 million housing trust fund, strengthened the City’s Code of Ethics, and closed a $50 million gap in City funding by delivering four budgets in less than two years. Minneapolis now leads the state in affordable housing production, job creation and the arts.

Hugh C. Smith, M.D. is chair of Mayo Clinic Rochester’s Board of Governors and is vice president of Mayo Foundation. In addition, he is a Professor of Internal Medicine at Mayo Clinic College of Medicine. Hugh is a graduate of the Manitoba Medical School, Winnipeg, Manitoba Canada. He received his Internal Medicine training at the University of Manitoba, cardiovascular research training at the University of Washington, and further research and clinical cardiovascular training at Mayo Clinic in Rochester, Minnesota. A physician leader; he has experience with a wide range of governing committees at Mayo and is one of Mayo’s Board of Trustees.

Donna-Bea Tillman, Ph.D is the Deputy Director for Technology and Review Policy in FDA’s Office of Device Evaluation. She began her career at FDA in 1984 as a reviewer in the Ob/Gyn devices branch, and later went on to become branch chief of the Pacing and Electrophysiology Devices branch, and Deputy Director for the Division of Cardiovascular Devices. Prior to coming to FDA, Dr. Tillman was involved in developing consensus standards at the Consumer Product Safety Commission. She received her B.S.E. in Engineering from Tulane University, and her Ph.D. in Biomedical Engineering from the Johns Hopkins University.

Dale A. Wahlstrom, was named Vice President and General Manager of Cardiac Rhythm Management Therapy Delivery and Physiological Research Laboratories in 1998. In this position he is responsible for managing the CRM therapy delivery business to support cardiac rhythm management lead products and delivery systems. He is also responsible for Physiological Research Laboratories and Medtronic EP RF Ablation business. Since joining Medtronic in 1982, Dale has held various management positions of increasing responsibility in various business involving implantable lead and generator products. Dale received his M.S. in Manufacturing Systems from the University of St. Thomas in 1994, and his B.S. in Engineering and Technology with focus in Electronic Engineering from St. Cloud State University in 1978. In 1988 he was a recipient of the Medtronic Star of Excellence Award and in 1997 received the Wallin Leadership Award. In 2002 Dale was recognized as the outstanding graduate of the year by the engineering department of St. Cloud State University.

Susan M. Wolf is the Faegre & Benson Professor of Law and Professor of Law and Medicine at the University of Minnesota Law School, Professor of Medicine at the University of Minnesota Medical School, and a Faculty Member in the University’s Center for Bioethics. She is also the founding Director of the University’s Joint Degree Program in Law, Health & the Life Sciences and founding Chair of the University’s Consortium on Law and Values in Health, Environment & the Life Sciences. She received her A.B. summa cum laude from Princeton University in 1975 and her J.D. from Yale Law School in 1980, with graduate work at Harvard University.