

Conference Overview

What will happen if we discover there are no “natural” biological limits to how long people can live? How quickly might genetic advances permit life expectancy to surge? How will ethical, legal, and social considerations affect decisions to use these advances to extend life, as well as treat and prevent diseases?

These and other questions will be the focus of the eleventh conference in an annual series that addresses current ethical and legal issues related to genetics. Attendees will explore the scientific promise of advances in genetics and cloning aimed at life extension, balanced against the ethical, legal, and societal issues this progress will raise. Although most everyone agrees on the fundamental virtues of advances in treating and preventing diseases associated with aging, and perhaps even slowing the aging process itself, the extent and purposes to which such manipulations should be used remain debatable. Our discussions will incorporate wide-ranging and diverse perspectives, including views that champion a “traditional life-span,” as well as “healthspan extension,” or growing old while staying healthy.

Attendees will have the opportunity to participate actively in all phases of the conference, including moderated discussions of vignettes that assume varying degrees of success in research to extend the human life span. This broadly-based conference targets all health care professionals, researchers, business people, ethicists, attorneys, ethics committee members, institutional review board members, and individuals interested in the impact of genomic medicine on people and institutions.

Course Registration

ENGINEERING IMMORTALITY: THE END OF DEATH? • JULY 21 – 22, 2006

Register on-line at: www.uchsc.edu/cme and click on the “Register Now” button. **Payment by Visa or Mastercard is required to register on-line. When you register on-line, you will receive immediate confirmation of your conference registration. (This site uses industry-standard Secure Sockets Lay (SSL) encryption technology to protect your credit card information.)**

Register by mail or fax:

Last Name _____ First _____ MI _____

Degree: MD DO PhD JD Other _____

Address _____

Zip _____ City _____ State _____

Office Phone No. _____ Fax No. _____

E-Mail _____

(We will not provide your email address to anyone outside the CME office or Center for Bioethics)

Registration:	On or Before 6/5/06	After 6/5/06	Student Fee
	\$275	\$325	\$150

Total Due: \$ _____

Enclosed is my check made payable to: Center for Bioethics & Humanities
 Visa MasterCard

Credit Card Number _____ Exp. Date _____

Cardholder Signature _____

(Only registrations with credit card payments are accepted by fax and on-line registration. We will accept registrations through Friday, July 14; thereafter, you may register onsite.)

 If you have a disability and may require accommodation in order to fully participate in this activity, please be sure to notify Mary Lou Wallace of your special needs.

Mail to: Genetics & Ethics, UCDHSC • 4200 E. 9th Avenue, B137
Denver, CO 80262

Fax to: 303-315-0820 with Visa or MasterCard payment

General Information

THE GIVEN INSTITUTE

The program will be held at The Given Institute, a very comfortable and pleasant site for a meeting. The building, specially constructed for this purpose in 1973, is surrounded by beautifully landscaped grounds, which are used for informal discussion and social events. The Institute is located at 100 E. Francis St., at the corner of Garmisch & E. Francis Streets, 3 blocks north of Highway 82. Visit: www.giveninstitute.org.

The telephone number during conference meeting times only is 970-544-6000; to leave a voice message: 970-925-1057.

ASPEN, COLORADO

Aspen is located 200 miles west of Denver at an elevation of 7,900 feet, in the midst of the White River National Forest, near some of the most spectacular scenery in Colorado. Aspen may be reached from Denver by automobile via Routes 285, 24, and 82 which is a breathtaking ride over Independence Pass (approximately 3.5 hours), or via Glenwood Springs on Interstate 70 and Route 82 (approximately 4 hours). Colorado weather features warm days, cool evenings and occasional late afternoon showers. Bring clothing suitable for temperature ranges between 55-85 degrees. Casual wear is appropriate and encouraged. Sunglasses and sunblock are advised. Please be sure to bring an umbrella or raingear for occasional afternoon rain showers.

ASPEN ACTIVITIES

For information on Aspen activities visit: www.aspenchamber.org or www.snowmassvillage.com

ACCOMMODATIONS

Please reference the Genetics & Ethics Conference, University of Colorado, when calling for reservations.

Hotel Aspen: 2 blocks from The Given Institute. Contemporary classic offers a variety of room types, some with jacuzzis, balconies, solariums,

outdoor pool and hot tub. Breakfast included. Rates from \$159. Room block released June 23. 800-527-7369

Molly Gibson Lodge: 2 blocks from The Given Institute. A variety of room types, some with jacuzzis, fireplaces, kitchens, courtesy shuttle to and from the airport, complimentary continental breakfast, and wireless internet service. One-speed bicycles available for use. Rates starting at \$157 if you book directly. 800-356-6559 To take the virtual tour of the property, visit www.mollygibson.com but to receive the group rate, please call the Lodge directly.

For additional lodging information, telephone Aspen Central Reservations at 970-925-9000, www.aspen4u.com or www.snowmassvillage.com

There are many events occurring in Aspen during this time, so your early decision regarding lodging and airline reservations is strongly advised.

ACCREDITATION

CLE Credit: This course has been accredited by the Colorado Board of Continuing Legal and Judicial Education for a maximum of 11 units of credit (12 general units, 7 of which are ethics units).

CEU: An application for CEU credits has been submitted to the American Board of Genetic Counseling.

FEES

Fees include Friday evening reception, refreshments, Saturday lunch, syllabus materials and a non-refundable administrative charge of \$50. All fees are due in advance; registrations will not be accepted without payment. Only registrations with credit card payments will be accepted by fax and on-line registration. We will accept registrations through Friday, July 14; thereafter, you may register on-site.

<u>On or before June 5, '06</u>	<u>Postmarked after June 5, '06</u>	<u>Student Fee</u>
\$275	\$325	\$150

Cancellation: Through Friday, July 7, a full refund, less the \$50 administrative fee, will be made for cancellations. No refunds will be granted after July 7 or for non-attendance. The conference committee reserves the right to cancel this conference in the event of an unforeseen circumstance, or if the minimum acceptable registration is not attained. In the event of a cancellation the Office of CME is obligated to refund the registration



For Additional Information:

Call Mary Lou Wallace: 303-315-5096 or Marilyn Coors: 303-315-0203, University of Colorado Center for Bioethics and Humanities. Visit our website for links to Aspen/Snowmass websites and register on-line: www.uchsc.edu/cme.

Schedule

Friday, July 21, 2006

Age extension and life expectancy: What's possible, what's desirable, and can it be regulated?

PM

- Noon Registration
- 1:00 **Welcome and opening remarks**
Richard Spritz, M.D.; Mark Yarborough, Ph.D.
- 1:15 **Is the evolution of genetically engineered human beings inevitable?**
"Genetics and the future of the human race"
Charles Cantor, Ph.D.
- 1:50 **Is there any upper limit on human life span?**
"Life span extension or immortality: The reality and the hype"
Thomas Johnson, Ph.D.
- 2:30 **Should fifty additional years of healthy life be counted as an iatrogenic side effect of effective disease prevention, or a serendipitous benefit?**
"Mid-life Crises at 100? Life Extension, Preventive Medicine and the Goals of Biogerontology"
Lynda Fox Memorial Lecture: Eric Juengst, Ph.D.
- 3:45 Break
- 4:15 **Which agencies should regulate science, or can we take care of ourselves?**
"The good, the bad and the ugly of science regulation"
Joann Boughman, Ph.D.
- 5:15 **Reception (Alcohol to be served.)**



University of Colorado at Denver and Health Sciences Center
Center for Bioethics & Humanities
4200 East Ninth Avenue, B137
Denver, Colorado 80262



Engineering Immortality: The End of Death? July 21-22, 2006

Conference Faculty

Joann A. Boughman, Ph.D.
Executive Vice President
American Society of Human Genetics

Charles Cantor, Ph.D.
Chief Scientific Officer
SEQUENOM, Inc.

Jay Clayton, Ph.D.
William R. Kenan, Jr. Professor
Chair, Department of English
Vanderbilt University

Thomas E. Johnson, Ph.D.
Professor of Molecular Behavioral Genetics
Institute for Behavioral Genetics
University of Colorado at Boulder

Eric Juengst, Ph.D.
Associate Professor of Bioethics
Director, Center for Genetic Research Ethics and Law
Department of Bioethics
Case Western Reserve University School of Medicine

Gov. Richard D. Lamm
Co-Director
Institute for Public Policy Studies
University of Denver
Former Governor, State of Colorado

Rev. Tadeusz Pacholczyk, Ph.D.
Director of Education
The National Catholic Bioethics Center

Mervyn L. Tano, J.D.
International Institute for Indigenous Resource
Management

Planning Committee Faculty

Marilyn Coors, Ph.D.
Assistant Professor
Center for Bioethics and Humanities
University of Colorado at Denver
and Health Sciences Center

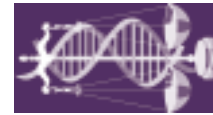
Carol Greene, M.D.
Director, Clinical Genetics and Metabolism, and
Medical Director, Masters in Genetic Counseling
Training Program
University of Maryland School of Medicine

Paul Spicer, Ph.D.
Associate Professor of Psychiatry
American Indian & Alaska Native Programs
University of Colorado at Denver
and Health Sciences Center

Richard A. Spritz, M.D., F.A.C.M.G.
Professor and Director
Human Medical Genetics Program
University of Colorado at Denver
and Health Sciences Center

Peter J. Whitehouse, M.D., Ph.D.
Director Integrative Studies
Department of Neurology
Case Western Reserve University

Mark Yarborough, Ph.D.
Associate Professor and Director
Center for Bioethics and Humanities
University of Colorado at Denver
and Health Sciences Center



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11th Annual Genetics & Ethics in the 21st Century

July 21-22, 2006
The Given Institute of the University of Colorado
Aspen, Colorado



PRESENTED BY:
University of Colorado at Denver and Health Sciences Center
The Human Medical Genetics Program
Center for Bioethics and Humanities
Office of the Chancellor
and
Center for Genetic Research Ethics and Law
Case Western Reserve University School of Medicine

EDUCATIONAL SUPPORT:
Affymetrix, Inc.

Engineering Immortality: The End of Death?