6TH ALCOR CONFERENCE
AN INSIDE LOOK
at the Science and Medicine of Tomorrow

CONFERENCE PROGRAM
October 6-8, 2006
Scottsdale, Arizona

Presented by the
Alcor Life Extension Foundation
**WELCOME**

On behalf of the Alcor Board of Directors, Boards of Advisors, staff and Conference Committee, it is our pleasure to personally welcome you to the 6th Alcor Conference: An Inside Look at the Science and Medicine of Tomorrow.

It is especially important for leading-edge industries, such as cryonics, to offer educational opportunities. This conference will focus your attention on the science and mission of cryonics, the challenges we presently face and those we anticipate in the future, as well as our roadmap for success. The experts speaking this weekend will offer insider information on technical developments and theoretical concepts impacting the cryonics industry today. We are excited to bring together these world-renowned researchers, scientists, and educators to give you a first-hand look at how advancements in nanotechnology, nanomedicine, and cryobiology are furthering our objectives. They will also explore how an extended life might be achieved without relying on cryonics and the economic and social implications of living longer and healthier lives.

We invite you to get involved and contribute to the discussions. Whether you have already chosen to participate in cryonics, are considering joining a cryonics organization, or are just here to learn more, we welcome your lively participation.

At the conclusion of the presentations, you might be interested in the opportunity to visit our nearby cryonics facility. On the afternoon of Sunday, October 8th, we encourage you to tour our patient care bay, operating room, and emergency transport vehicle. We will also offer a sneak peak into exciting developments currently underway. There will be plenty of food, and it is a great time to get to know many of your fellow conference attendees.

Our mission is the preservation of individual human lives, and we thank each one of you for helping us advance our mission by being here this weekend. If any of our staff can assist you in any way during the conference, do not hesitate to ask. Enjoy the program.

Sincerely,

Jennifer Chapman and Tanya Jones
Conference Co-Chairs

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**CONFERENCE COMMITTEE**

Jennifer Chapman
Tanya Jones
Stephen Van Sickle
Connie Gutierrez & Karolyn Kiburz
of Meetings & Concierges Source, LLC

**MODERATORS**

Cheryl Walsh
Cheryl Walsh is the President and Founder of WalshCOMM, a strategic marketing and communications firm representing the Alcor Foundation since 2004.

Ravin Jain, M.D.
Ravin Jain, M.D. is a neurologist who lives in California and a member of Alcor since 2001.

Jerry B. Lemler, M.D.
Jerry B. Lemler, M.D., the former President/CEO of the Alcor Foundation, has been a Board Director since 2004 and a member of Alcor since 2000.

**BOARD OF DIRECTORS**

Saul Kent
Michael Riskin, CPA, Ph.D.
Jerry B. Lemler, M.D.
Michael R. Seidl, Ph.D., J.D.
Ralph Merkle, Ph.D.
Stephen J. Van Sickle
Carlos Mondragon
Brian Wowk, Ph.D.
WELCOME RECEPTION
Friday Evening, 7:00 pm – 10:00 pm
Welcome Address:
Arizona Secretary of State Jan Brewer
Splash Patio
Start the conference off by meeting members, colleagues and friends for an evening of food, fun and networking. A rousing welcome address will be delivered by Arizona Secretary of State, Jan Brewer. This event is open to all attendees. (Guest passes may be purchased at the registration desk.) Casual attire is appropriate.

SATURDAY EVENING BANQUET
Saturday Evening, 7:00 pm – 10:00 pm
Valencia Ballroom
Join us for an elegant dinner with live music. You will have the opportunity to discuss the day's sessions with your peers and meet some of the speakers who presented. This event is open to all attendees. (Guest passes may be purchased at the registration desk.) Business casual attire is appropriate.

OPEN HOUSE AT THE ALCOR FOUNDATION
Sunday Afternoon, 2:30 pm - 6:30 pm
Come and join us for open house at the Alcor Foundation. Enjoy a delicious barbeque while you mingle with some of the conference speakers, Alcor board of directors and staff. There will be tours of the Alcor Foundation allowing you to see first-hand Alcor’s patient care bay, operating room, and emergency transport vehicle. The event is free and open to anyone interested in learning more about the Alcor Foundation and meeting others. Buses will offer transportation between the Alcor Foundation and the Marriott from 2:00 pm to 6:00 pm.

RECOGNITION PINS
As you meet others at the conference take note of those wearing a specially designed Alcor pin. The pin is our way of acknowledging those who have been an Alcor member and supporter for five or more years. We encourage you to join us in recognizing their long-standing dedication and support.

BECOME A MEMBER
You have an excellent opportunity to become an Alcor member during the conference at a reduced price. Submit your completed application during the conference and we will waive the $150 application fee. If you are ready to sign the membership contracts, visit our private room where volunteers will witness and notarize your signature at no charge. Need life insurance? One of our favorite insurance agents is here to provide quotes and complete an insurance application for you and your family. We are also available to answer your specific questions in an individual consultation. Visit the Information Booth for details and to make an appointment.

MERCHANDISE
Plenty of promotional items are available for purchase to show your enthusiasm for cryonics and Alcor. Sales will include T-shirts, hats, mugs, commemorative pins, and more. Peruse a variety of fascinating and thought-provoking books, provided by Borders, including many written by the speakers you will be hearing from during this conference.
FRIDAY, OCTOBER 6, 2006

Time       Event                        Room
5:00 pm – 8:00 pm  Registration       Foyer
7:00 pm – 10:00 pm Welcome Reception   Splash Patio
8:00 pm – 8:30 pm  Welcome Address: Arizona Secretary of State Jan Brewer

SATURDAY, OCTOBER 7, 2006

8:00 am – 9:00 am  Continental Breakfast  Splash Patio
9:00 am – 9:10 am  Opening Remarks      Valencia Ballroom
9:10 am – 9:50 am  Theodore C. Kraver, Ph.D. Valencia Ballroom
9:50 am – 10:50 am Cryonics Public Policy Panel Valencia Ballroom
10:50 am – 11:05 am Morning Break (15 minutes) Foyer
11:05 am – 11:50 am Robert A. Freitas Jr., J.D. Valencia Ballroom
11:50 am – 12:35 pm Ralph Merkle, Ph.D. Valencia Ballroom
12:35 pm – 2:00 pm  Luncheon
                     Sponsored by Cryonics Society of Canada Splash Patio
2:00 pm – 3:00 pm  Cryonics Organizations Today Panel Valencia Ballroom
3:00 pm – 3:35 pm  J. Storrs Hall, Ph.D. Valencia Ballroom
3:35 pm – 4:00 pm  Afternoon Break (25 minutes) Foyer
4:00 pm – 4:45 pm  David Friedman, Ph.D. Valencia Ballroom
4:45 pm – 5:30 pm  Aubrey de Grey, Ph.D. Valencia Ballroom
7:00 pm – 10:00 pm Evening Banquet Valencia Ballroom

SUNDAY, OCTOBER 8, 2006

8:00 am – 9:00 am  Continental Breakfast Splash Patio
9:00 am – 9:05 am  Opening Remarks Valencia Ballroom
9:05 am – 9:50 am  Brian Wowk, Ph.D. Valencia Ballroom
9:50 am – 10:50 am Gregory M. Fahy, Ph.D. Valencia Ballroom
10:50 am – 11:25 am Morning Break (35 minutes) Foyer
11:25 am – 12:00 pm Stephen J. Van Sickle Valencia Ballroom
12:00 pm – 12:40 pm Michael Riskin, CPA, Ph.D. & Tanya Jones Valencia Ballroom
12:40 pm – 12:55 pm Closing Remarks Valencia Ballroom
2:30 pm – 6:30 pm  Open House Sponsored by the Life Extension Foundation Alcor Foundation
                    (See driving directions to the Alcor Foundation on the inside back cover.)
THEODORE C. KRAVER, Ph.D.

The Early Days
Saturday, 9:10 am – 9:50 am

The 1960s space program helped spawn the first cryonics enterprise, Cryocare Equipment Company, then promptly extinguished it despite extensive coverage by Life magazine. Hear of the turbulent times faced by this early cryobiology company and how it went on to save thousands of lives with burn wound treatments. Along with others at Cryocare, Dr. Kraver helped build the first cryocapsule used in a human cryopreservation. That cryocapsule housed the first cryopreserved patient, Dr. James Bedford, who continues the journey he started in 1967 today under the care of the Alcor Foundation.

Bio:
Dr. Kraver earned a degree from the Massachusetts Institute of Technology in Aeronautical and Astronautical engineering in the 1960s and today has a Ph.D. in Mechanical engineering from Arizona State University. He has enjoyed a distinguished career in the engineering field and many civic entrepreneurship successes. He founded Arizona’s first cryobiology company, Cryocare, and has been a member of the Alcor Foundation since 1988.

Cryonics Public Policy Panel
Saturday, 9:50 am – 10:50 am

Organizations that are unique and engage in leading edge ideas and technologies may become the target of attempts to apply limitations or regulations to their operation. Alcor faced just such a situation in 2004 and successfully avoided having onerous rules placed on its operation while learning that participation in the legislative process on a proactive basis is essential in protecting against such further attempts. State Representative Michele Reagan and State Representative Linda Lopez have both continued to be staunch supporters of Alcor’s public policy objectives. They will discuss the legislative process in this panel moderated by Alcor Public Policy Consultant Barry M. Aarons.

Bios:
State Representative Michele Reagan (Republican – Scottsdale) won a seat at the House of Representatives for District 8 in 2002. She chairs the House Commerce Committee and is very passionate about small business issues.

State Representative Linda Lopez (Democrat – Tucson) won a seat at the House of Representatives for District 29 in 2001. She has served as House Minority Whip (2003-2004) and Assistant Minority Leader (2005-2006). She has a great passion for children and education.

Barry M. Aarons is the owner of The Aarons Company, a public policy consulting firm. Aarons has over 30 years experience in policy development, public affairs implementation and lobbying in state legislatures and the U.S. Congress. He has represented the Alcor Foundation since 2004.
Dr. Freitas believes the advent of medical nanorobotics in coming decades will create a revolution in medical treatment, giving doctors the ability to rapidly eliminate microbial infections and cancer, repair and recondition the human vascular tree, and replace chromosomes in individual cells thus reversing the effects of genetic disease and aging. To learn how far off we really are from building such devices, join us for one of the rare public appearances by Dr. Freitas.

Bio:
Dr. Freitas is the author of “Nanomedicine”, an innovative book series exploring the potential medical applications of molecular nanotechnology and medical nanorobotics. He is a Senior Research Fellow at the Institute for Molecular Manufacturing and previously worked as a Research Scientist at Zyvex Corporation, a nanotechnology company.

Dr. Merkle joins us to explain how molecular nanotechnology will revolutionize medicine by allowing us to build molecular medical tools able to directly address the fundamental cellular and molecular causes of disease. By immobilizing unhealthy tissue through cryopreservation, it is possible to limit the rapid deterioration resulting when damaged tissues are kept at normal temperatures. Molecular tools will literally be able to scan, analyze, and then repair tissue in situ, enabling restoration of well-cryopreserved tissue to good health. Find out where this exciting technology stands today and how it may be put to good use tomorrow.

Bio:
Dr. Ralph Merkle is a distinguished professor at the College of Computing at Georgia Institute of Technology and previous nanotechnology researcher and theorist at Xerox Palo Alto Research Center and Zyvex Corporation. Today, he is an undisputed expert and globally recognized for his work in nanotechnology, the technology that will be required for cryopreserved individuals to be revived.
CRYONICS ORGANIZATIONS TODAY PANEL
Saturday, 2:00 pm – 3:00 pm

This panel discussion will offer a brief introduction to cryonics organizations active today and be followed by a lengthy question-and-answer session with the audience. Presenters will cover such topics as the technical capabilities, objectives, and policies of their respective organizations. Attendees are encouraged to seek answers to their questions about each organization’s operations and vision for the future.

Bios:
Ben Best, President/CEO of Cryonics Institute since 2003, was a co-founder of the Cryonics Society of Canada and served as its President/CEO for most of the 1990s. He was Secretary of CryoCare from 1995-1999 and served as President/CEO in 1999. He has been President/CEO of the Institute for Neural Cryobiology since 2001.

Melody Maxim has a BS in Allied Health Science and a Certificate in Perfusion Technology, from Baylor College of Medicine. She worked as a clinical cardiovascular perfusionist for nine years. She joined Suspended Animation, Inc. as a full-time employee in August 2006 and has been evaluating and enhancing all aspects of standby-stabilization procedures.

Tanya Jones, Alcor Chief Operating Officer, became actively involved with Alcor in 1990 when she joined as a member. She has devoted nearly a decade to her work at Alcor and has extensive experience overseeing the cryopreservation process, improving Alcor’s cryopreservation procedures, and managing day-to-day operations. Tanya has participated in the cryopreservation of half of Alcor’s patient population.

J. STORRS HALL, Ph.D.

A Door into Summer
Saturday, 3:00 pm – 3:35 pm

What kind of science, technology, and society awaits those revived from cryopreservation? What kind of world has to exist for cryonics patients to be revived? J. Storrs Hall, an independent scientist and author of “Nanofuture: What’s Next for Nanotechnology”, examines some of the possibilities and implications.

Bio:
Dr. Hall was the founding Chief Scientist of Nanorex Inc., the leading provider of computational modeling tools made specifically for the design and analysis of nanosystems. He has an extensive research background, including AI, microprocessor design, and development of CAD software.

Notes:
DAVID FRIEDMAN, Ph.D.

If Life Were A Lot Longer: An Economist’s View
Saturday, 4:00 pm – 4:45 pm

Pondering what could become possible in our personal and professional lives if aging were defeated, Dr. Friedman asks provocative questions about the future of the family unit, a typical career path, and the economic outlook for society as a whole. Will forty-five years of work and then centuries of leisure become the norm? Will there be one family once or one every fifty years? Will we face mass unemployment, mass leisure or overpopulation? Sharing insights from his most recent book, “Future Imperfect”, Dr. Friedman navigates through the many potential consequences of an extended lifespan.

Bio:
Dr. Friedman earned his undergraduate degree from Harvard University and holds a Ph.D. in Physics from the University of Chicago. Currently a professor of law at Santa Clara University, he was a college professor of economics for many years.

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AUDBREY DE GREY, Ph.D.

SENS: A Precursor to Cryonic Revival
Saturday, 4:45 pm – 5:30 pm

Dr. Aubrey de Grey has developed a comprehensive plan, termed Strategies for Engineered Negligible Senescence (SENS), which breaks down the aging problem into seven major classes of damage and identifies detailed approaches to addressing each one. Dr. de Grey joins us to overview the SENS plan and highlight how his proposed aging interventions closely parallel the molecular and cellular repairs that will be required to revive a well-vitrified cryonics patient.

Bio:
Dr. Aubrey de Grey is a biomedical gerontologist at the University of Cambridge, England. The Editor of “Rejuvenation Research”, the world’s only peer-reviewed journal focused on intervention in aging, he is an advocate of research seeking answers to why and how molecular and cellular metabolic damage brings about aging and ways humans can intervene to repair and/or obviate that damage.

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GREGORY M. FAHY, Ph.D.

Research Toward Whole Body Suspended Animation
Sunday, 9:50 am – 10:50 am

Recent research on the vitrification of kidneys and other organs has led Dr. Fahy to conclude that the recovery of isolated organs following vitrification, rewarming, and transplantation may be possible, and even that whole body suspended animation might eventually be possible. Cryopreserving the brain appears to be the largest obstacle to whole body suspended animation, but recent results with brain cryopreservation have been encouraging, and it appears that the brain can be vitrified within the intact body. Dr. Fahy will provide a unique and cutting edge look at the cryopreservation of complex systems.

Bio:
Dr. Gregory Fahy is the Chief Scientific Officer of 21st Century Medicine, where he directs the company’s research activities devoted to solving the most difficult problems in the field of cryobiology. Since 1980, his major research focus has been the cryopreservation of organs by vitrification as a means of solving the problems created by ice formation during the cryopreservation process.

Notes:

BRIAN WOWK, Ph.D.

The Cryobiological Basis of Cryonics
Sunday, 9:05 am – 9:50 am

The premise of cryonics is the preservation of sufficient information, especially brain information, to permit recovery of the original person. Studies show steady progress in the quality with which brain information can be preserved under ideal conditions. However the absence of demonstrable reversibility, and the vast variety of conditions under which cryopreservations can take place, introduce uncertainty in the “information theoretic” paradigm of cryonics. For future technologies to be able to restore health after arbitrary injuries, amnesia may be the final dividing line between life and death. Dr. Wowk joins us to discuss what cryobiology says about the prospects of cryonics actually working.

Bio:
Dr. Brian Wowk is a Senior Scientist at 21st Century Medicine, Inc. where he studies the low temperature preservation of tissues and organs for medical use. He was a co-developer with Dr. Gregory Fahy of technology permitting successful cryogenic temperature preservation of the mammalian kidney.

Notes:
STEPHEN J. VAN SICKLE

Technical Progress at Alcor
Sunday, 11:25 am – 12:00 pm

Stephen Van Sickle will outline current events at the Alcor Foundation focusing on technical advancements and the organization’s vision for success over the next year. He will review the progress made possible by the recent $200,000 whole body vitrification research grant and discuss the engineering of a new cryoprotective perfusion and cooling system that will be used at Alcor. His presentation will offer never-before-released details of a new laboratory at Alcor dedicated to replicating and extending the whole body hypothermia and cryoprotective perfusion experiments originally conducted over 10 years ago by Cryovita and Alcor. Advances in Alcor’s emergency transport equipment, methods and capabilities will also be covered.

Bio:
Stephen Van Sickle, Alcor Executive Director since August 2005, has been actively involved with the organization since becoming a member in 1992. He was elected to the board of directors in 1999 and continues in this role today. He oversees day-to-day operations at Alcor and is heavily involved in the development and deployment of new cryopreservation methods and technologies at Alcor, taking advantage of his graduate education in molecular neurobiology and knowledge of engineering.

ALCOR’S WEALTH PRESERVATION TRUST
Sunday, 12:00 pm – 12:40 pm

In conjunction with legal counsel, the Alcor Foundation is actively developing a unique Wealth Preservation Trust for Alcor members. This trust is intended to enable Alcor members to protect their assets while in cryopreservation and includes special provisions addressing the long-term financial needs of Alcor members. This presentation will provide a brief history of how this trust was developed and update you on its current status. There will be an overview of the financial aspects of the trust and how it is structured, including the ways it differs from other perpetual trusts.

Bios:
Dr. Michael Riskin is Alcor’s Vice President and Chairman of the Board of Directors. He became a member of Alcor in the mid 1980’s and has since served in various capacities at the organization, including internal auditor, member ombudsman, CFO, Vice President, and Board Member.

Tanya Jones, Alcor Chief Operating Officer, became actively involved with Alcor in 1990 when she joined as a member. She has devoted nearly a decade to her work at Alcor and has extensive experience overseeing the cryopreservation process, improving Alcor’s cryopreservation procedures, and managing day-to-day operations.
CRYONICS: LEARN MORE

The Alcor Life Extension Foundation, a non-profit organization located in Scottsdale, Arizona, was founded in 1972. Today the Alcor Foundation is the world leader in cryonics and cryonics research. Alcor currently cares for 74 patients and has a membership roster of over 800 people worldwide.

WHAT CRYONICS IS
Cryonics is a speculative life support technology that seeks to preserve human life in a state that will be viable and treatable by future medicine. It is expected that future medicine will include mature nanotechnology and the ability to heal at the cellular and molecular levels.

WHAT CRYONICS IS NOT
Cryonics as practiced by Alcor is not an interment method, mortuary practice, or dead tissue preservation. Just as organ donation involves recovery of living organs from a donor that is brain dead, cryonics involves stabilizing the viable brain of a patient who is legally deceased.

CRYONICS AND RELIGION
Cryonics is an attempt to preserve and protect the gift of human life. The purpose of cryonics is to maintain life, not reverse death. The spiritual status of cryonics patients is the same as frozen human embryos, or unconscious medical patients. When examined, cryonics has been endorsed by both clergy and theologians.

CRYONICS AND SCIENCE
Banking of transplantable organs at low temperature is a recognized specialty of the science of cryobiology. Alcor applies breakthroughs in organ banking research to the much more difficult problem of preserving whole people. Although cryonics is not reversible today, the eventual perfection of cryonics will be of great value to fields such as medicine and space travel.

The intent and practice of cryonics are frequently misrepresented. We invite you to explore our website and reach your own conclusions.

WEBSITES OF INTEREST
Alcor Foundation www.alcor.org
Alcor News www.alcornews.org/weblog
Alcor United www.alcorunited.org
21st Century Medicine www.21cm.com
Inst. for Molecular Manufacturing www.imm.org/
Nanomedicine www.foresight.org/Nanomedicine/
SENS www.sens.org/
More links www.alcor.org/Links/index.html

FAQs

IS CRYONICS GUARANTEED TO WORK?
No, cryonics can fail in two ways. Either cryonics patients will not remain cryopreserved long enough to reach the medicine they need, or an insufficient record of their mind will be successfully cryopreserved. The likelihood of the second failure mode has been diminishing for years as cryonics technology improves.

HOW HAS CRYONICS TECHNOLOGY IMPROVED?
Since the earliest cryopreservations, Alcor’s emergency response capability has expanded to include an advanced medication protocol designed to mitigate cellular deterioration, rapidly-deployable stabilization equipment, extensive regional training for volunteers and medical personnel, and engineering processes for the implementation of vitrification on a whole body scale. Alcor has been using vitrification technology since 2000. Vitrification is now widely- regarded as the most promising approach for long-term banking of large organs.

HOW DOES VITRIFICATION WORK?
Living tissue is mostly made of water. When tissue is cooled below freezing, water molecules form growing ice crystals, which leaves cells damaged and squashed. Adding chemicals called cryoprotectants to water can prevent water molecules from gathering together to form ice. At temperatures below -100°C, molecules become locked in place and a solid is formed. Water that becomes solid without freezing is said to be “vitrified”. For vitrified cells, biological time is stopped.

HOW MUCH DOES ALCOR MEMBERSHIP COST?
For a young person, the lifetime cost of cryonics is no greater than that of smoking, cable TV, or regular eating out. Most people pay for cryonics with life insurance, and the actual cost depends on your age and health. Alcor offers two cryopreservation options: whole body cryopreservation for $150,000 and neuropreservation for $80,000 (international surcharges may apply outside the US). Alcor members also pay annual dues of $518 (discounts apply for students and families).

HOW WILL ALCOR CARE FOR ITS PATIENTS IN THE FUTURE?
In 1997, Alcor created an irrevocable Patient Care Trust to ensure the security of the funds allotted to the long-term care of Alcor’s patients. Alcor places $25,000 into the Trust for each neurosuspension patient and $65,000 for each whole body patient.

NEED MORE INFO?
Call us toll-free: 877-462-5267 ext. 132
info@alcor.org • www.alcor.org/FAQs/index.html
SPECIAL THANKS
TO OUR SPONSORS FOR THEIR SUPPORT

A Canadian non-profit corporation dedicated to informing Canadians about cryonics and cryonics in Canada
Visit us at: http://www.cryocdn.org

Imminst.org

HealthHaven.org

JOIN ALCOR TODAY
There’s no better time to become an Alcor member. You can do it all right here and now. Submit your application during the conference and we will waive the $150 application fee. Membership contracts will be printed on request and witnesses and a notary will be provided at no charge for signing in a private boardroom. You can even apply for an affordable life insurance policy today.
Visit the Information Booth for details.

DIRECTIONS TO ALCOR AND AIRPORT

CALL 480-905-1906 EXT. 101 FOR ASSISTANCE

THE ALCOR FOUNDATION
7895 EAST ACOMA DR., SCOTTSDALE, AZ 85260