

Alcor Life Extension Foundation Newsletter

Your source for insider's info

Issue: #113

June 2012

Alcor Buliding

Subscribe/unsubscribe information is at the end of this newsletter.

You may email any questions or comments to membership@alcor.org. Please do not reply to this message. Contents are copyright 2012 by the Alcor Foundation.

WHAT'S NEW AT ALCOR

ASSOCIATE MEMBERSHIP Introducing a new class of Alcor member

Supporters of Alcor who are not yet ready to make cryopreservation arrangements can now become an Associate Member by paying \$10/month. Associate members are members of the Alcor Life Extension Foundation who have not made cryonics arrangements but financially support the organization.

We will encourage members who are having to drop their arrangements temporarily due to reduced income to remain as **Associate Members.**

HOW TO BECOME AN ALCOR MEMBER

Becoming an Alcor member is easy and surprisingly affordable, if you are in good health and eligible for life insurance, which will pay for your

CEO REPORT

Communication

I was interviewed by a writer working on a book on life extension, which started out as a TEDx talk. An earlier interview on Radio Ireland's Future Proof, hosted by Jonathan McCrea, is available online. My interview (dated May 12) **starts 11:45** into the program:<http://www.newstalk.ie/programmes/all/futureproof/podcasts/>

Max Sitting in Dewar

One June 12, Alcor member Maria Entraigues joined us for an all-day filming by Argentina's Discovery Channel show. This was an elaborate piece of filming, starting with me answering questions about the cryopreservation procedure and what Alcor does.

Then the more interesting part took up the bulk of the day, as the film crew followed as Aaron explained to Maria what would happen to her if Argentina Discovery Surgery she needed to be

cryopreserved. In preparing for this documentary filming, we decided that there are some inexpensive measures we can take to modify the lighting in the patient care bay, softening the harsh, chilly, silvery appearance.

cryopreservation.

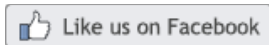
If you are not insurable, other financial arrangements can be made. Please ask us for details or visit the link below.

[ALCOR MEMBERSHIP INFORMATION AND ENROLLMENT INSTRUCTIONS](#)

To find out about: Alcor Training Sessions; Regional Cryonics Meetings as well as Non-Alcor Events in your area, please visit: the **[UPCOMING EVENTS](#)** page on our website.

ALCOR IS ON FACEBOOK

If you would like to connect with Alcor members and supporters then visit: **[OFFICIAL ALCOR FACEBOOK](#)** Become a fan and encourage interested friends, family members, and colleagues to support us too!



DONATIONS ACCEPTED ON ALCOR WEBSITE

Now our valued supporters can make a charitable donation anytime just by clicking the "**[Donate](#)**" button on the Alcor

One amusing incident occurred recently when a couple of senior baseball fans showed up without notice, hoping to see where Ted Williams was kept. Given the damage done to Alcor's reputation by false and sensational claims made in a fairly recent book, these baseball enthusiasts were surprisingly far from being hostile or combative. They were excited to see where Mr. Williams' is being cared for, and even asked me to sign the Williams' page of their book on baseball greats. It is not true that any publicity is good publicity. However, at least some readers are sufficiently critical to investigate matters for themselves.

[Alcor-40 Conference: Looking Forward to the Next 40 Years](#)

Keep an eye out for the conference webpages for continuing updates. I'm still hoping to find room for a couple more eminent speakers, but most details are set:

When: **Friday October 19 to Sunday October 21, 2012.**

Where: Scottsdale Plaza Resort, 7200 North Scottsdale Road, Scottsdale, AZ 85253.

Rooms are \$159/night for single and double rooms.

Speakers and sessions include:

- Sebastian Seung on testing how well cryopreservation (and alternatives) preserves the connectome.
- Todd Huffman on brain scanning.
- A panel discussion on long-term financial planning, including investing strategies, inflation protection, and personal trusts.
- Aschwin and Chana de Wolf from Advanced Neural Biosciences on advances in cryonics-relevant research.
- Greg Fahy, from 21st Century medicine on advances in cryoprotection.
- Aubrey de Grey from the SENS Foundation.
- Joshua Mitteldorf on programmed aging.
- Anders Sandberg on "Handling the unknowable and undecidable: rational decision making about future technology".
- Catherine Baldwin: Advances at Suspended Animation.
- A panel on medical monitoring devices for improving your chances of a quick response in case of a critical physiological failure.
- Max More on how to improve your prospects for an optimal cryopreservation.

Sunday afternoon cookout and tour of Alcor.

If you are familiar with other recent conferences (and compare to Alcor's 2006 and 2007 events), you'll see that our registration rates are being kept low. We recognize that, especially in the current economy, high conference fees are an obstacle. These are the rates:

Early registration, until July 31:	\$275 (\$295 non-members)
August 1 to September 14:	\$325 (\$345 non-members)
From September 15:	\$365 (\$385 non-members)

We will probably give full credit of the registration fee to anyone who signs up as a full cryopreservation member at the conference.

Since we are keeping registration low, we are asking for sponsors to step forward and help cover the costs of bringing in speakers and contributing to the many other expenses of what we aim to be Alcor's best-attended conference to date. You will find sponsorship opportunities in the next article below and on the conference webpages.

website.

Alcor has a long, proud tradition of innovation and technical excellence in the field of cryonics. Your gift will make a difference in our quest for better cryopreservations.

Your decision to **DONATE** is sincerely appreciated. Remember donations are tax deductible.

ALCOR NEWS BLOG

Don't forget! You don't have to wait for this monthly newsletter to learn more about happenings at Alcor.

For the most up-to-date information throughout the month. Check the [Alcor News Blog](#)

(Remember that your contributions may be tax-deductible.)

It's not too late to provide us with suggestions on how to do better than previous conferences. We have pored over the feedback many of you gave on the last two events and we're acting on the most consistent comments. For instance, we're working to ensure that we provide healthy food that is compatible with a range of dietary preferences.

Following is a preliminary schedule. The conference website pages will soon have a detailed schedule of events, including scheduling of specific talks. For now, the basics are as follows:

Friday October 19, 2012

Registration: 5:00 pm - 8:00 pm
 Welcome reception: 7:00 pm - 10:00 pm
 Welcome address: 8:00 pm
 Networking: 10:00 pm until late

Saturday October 20, 2012

Registration: 7:30 am - 12:00 pm
 Breakfast: 7:30 am - 8:30 am
 Speaker Presentations: 9:15 am - 12:30 pm
 Lunch: 12:30 pm - 2:15 pm
 Speaker Presentations: 2:15 pm - 5:30 pm
 Banquet Dinner: 7:00 pm - 10:00 pm
 Networking: 10:00 pm until late

Sunday October 21, 2012

Breakfast: 7:00 am - 9:00 am
 Speaker Presentations: 9:30 am - 1:00 pm
 Alcor Open House & Barbecue: 2:30 pm - 6:30 pm

[Max More](#)

President and Chief Executive Officer

ALCOR 40TH ANNIVERSARY CONFERENCE SPONSORSHIP OPPORTUNITIES

	Sponsorship Opportunities	Amount	Available
<u>General Conference</u>			
	Alcor Patron	---- \$5,000.00	----- 3
	Alcor Sustainer	--- \$2,500.00	----- 4
	Alcor Supporter	---- \$1,000.00	----- 5
	Journal Publisher	--- \$1,750.00	----- 2
<u>Friday, October 19th</u>			
<u>Opening Reception</u>			
	Reception Grand Host	\$1,000.00	---- 1
	Reception Host	----- \$500.00	----- 2
	Reception Contributor	- \$250.00	----- 4
<u>Saturday, October 20th</u>			
<u>Continental breakfast</u>			
	Provider	----- \$1,000.00	----- 1
	Contributor	---- \$500.00	----- 2
<u>Program Panels</u>			
	Speaker Host	--- \$2,000.00	----- 3
	Speaker Associate	\$500.00	----- 6
<u>Hosted Breaks</u>			
	Provider	----- \$500.00	----- 2
	Contributor	---- \$250.00	----- 4

Evening Reception Reception Grand Host \$1,000.00 --- 1
Reception Host ----- \$500.00 ----- 2
Reception Contributor \$250.00 ----- 4

Sunday October 20th
Alcor 40th Anniversary

Cookout Food Sponsor ----- \$2,000.00 ---- 2
Beverage Sponsor ----- \$500.00 ----- 2
Tour Sponsor ----- \$250.00 ----- 2

CRYONICS MAY-JUNE 2012

Cryonics May-June Cover

The May-June issue of *Cryonics* magazine feature, "The Allocation of Long Term Care Costs at Alcor" by [Board member Ralph Merkle](#) presents a conceptual and quantitative analysis of the allocation of storage costs between neuro and whole body patients.

Most Alcor members are aware that long term care costs for neuro patients are lower than for whole body patients but how are these number exactly derived and is the current allocation fair? This extensive article also includes new photos of the Alcor patient care bay, dewars and patient

enclosures. The online version of this issue will be available on the Alcor website early June.

ALCOR'S AMAZON WISH LIST IS BACK!

Our [Amazon Wish List](#) allows Alcor to defray the cost of many items we would otherwise need to purchase, and allows donors the opportunity to make a donation in the form of an item that we need in our office, research lab, or medical facility. Every donation, no matter how small, will help us in achieving our goals.

Thank you for your continuing support, gifts from donors like you help to keep Alcor running smoothly.

TRANSPORT AND READINESS

Case Report for A-1002

The case report for Alcor founder Fred Chamberlain A-1002 has been completed and published to Alcor's website at: <http://alcor.org/Library/pdfs/casereportA1002FredChamberlain.pdf>

Training-Southern California

A training session for the Southern California response team was held on Saturday, June 23, 2012, at the Critical Care Research facility in Rancho Cucamonga, CA. The was a one day refresher for volunteers in that vicinity, many of whom may not have been on a case in a while.

Aaron and Ice Bath

Training-Laughlin

As there has been a large turnover in employees at the Riverside Resort in Laughlin, Nevada over the past couple of years, their management requested a training session so that there will be adequate coverage in the event of an emergency. This was a full two-day event that included all aspects of the stabilization process from cryonics theory to practical application to an in-

house scenario that involves the entire hotel security team.

Medical Response Director, Aaron Drake

As a part of the required paramedic refresher training, [Aaron Drake](#) will be certified as a CPR, AED, First Aid, and Blood Borne Pathogens instructor. This will lead to all staff members having the opportunity to renew their CPR certification and review use the inhouse AED. This will be beneficial not only in the event of an employee medical emergency, but also for the general public and members who visit and/or tour the Alcor facility.

READINESS AND TECHNICAL COORDINATOR

Pod and Dewar News

Pod Dzeus Fastenzer

With the recent arrival of our 3 new bigfoot dewars it was imperative that we construct the pod suites which fit inside. Twelve new standard size pods and three neuro center columns were produced by a local fabrication shop. These have now been fitted into the dry dewars for storage and are awaiting use. These new pods have been slightly redesigned for ease of construction, and all of the aluminum panels have been laser cut and computer numerical control ("cnc") punched/bent which has improved the fit and finish. The cnc programs are now finished and stored in the computer so in the future when more pods are needed, the production of new pods will be straightforward.

During the patient transfer procedure from cooldown into long term storage the transport and readiness team make an effort to prepare the transfer as quickly as possible without compromising workers' safety. One area where it seemed the team could reduce time was during the fastening of the aluminum cover to the pod base. Steve

Graber wanted to work out a more streamlined method of attaching the pod covers so he specified a quick lock ¼ turn spring loaded Dzus fastener to replace the rather tedious threaded screw with captured nut. The Dzus fastener is pre-attached to both the pod base and the cover and he expects that these will reduce the time spent on fastening the cover during our transfer procedure.

In the team's final report regarding the boiloff performance of our 3 CryoFab Dewars, Mike Perry recently confirmed that BF16, the 3rd Cryofab dewar is averaging below 10 liter/day boiloff. Mike writes, "I fitted the boiloff data for Bigfoot 16 over a 240-day baseline using a polynomial (7th degree). The curve for depth of LN2 in inches vs time was straightforward piecewise-linear and nearly smooth at the viewing scale. I've assumed that an inch-thick layer of liquid is 20.593 liters in volume. The boiloff rate, shown as a function of time and also of depth of liquid in the dewar is about 10 L/day initially, falling sharply then more gradually to about 7.5 L/day then increasing somewhat near the end of the observation period".

New Data Acquisition System - Refractometer Calibration Rig

Accurate refractive index readings are critical in our perfusion plan during cryopreservation procedures. Refractometers are highly sensitive to changes in temperature and although ours do have a basic built-in temperature compensation circuit, our desire is to have accurate refractive index readings in the range of +3C to -3C. Rather than calibrate our refractometers at room temperature and depend on the temperature compensation circuit to artificially adjust the values it makes much more sense to just calibrate the refractometers at or near the actual temperature values we see during cryopreservation. With that goal in mind, Steve Graber built a simple refractometer calibration rig.

Refractometer Rig

The rig is comprised of a chiller, a heat exchanger, a small roller pump, a ¼" tubing refractometer head adapter (for easy swapping of refractometers), a beaker containing calibration solutions, and several small lengths of clear tubing. The chiller operates typically at 3C (although this value can be changed) and circulates a water/E.G. solution up through the heat exchanger. On the other side of the circuit a small roller pump draws our calibration solution (water/e.g.) up out of the beaker, through the heat exchanger, past the refractometer head and back down into the beaker. Various thermocouple probes track temperature at the chiller and pre-post the heat exchanger.

O2 Sensor Replacement

This month the O2 sensing unit in the Operating Room failed. While testing the sensor and then the unit it was determined that the main board in the housing had stopped working. A new Draeger Polytron 5000 replacement was ordered and arrived within the week. To ensure that safety in our surgical suite is not compromised Steve installed it as soon as possible after receiving it. The O2 sensing unit is a critical safety component because of Draeger O2 sensor

our use of LN2 during cryopreservations. Our sensor is tied into an automatic ventilation system which operates if/when the sensing unit determines the O2 level has fallen below 20.1%. Typical atmospheric O2 level is 20.9%.

ADMINISTRATIVE REPORT

Membership Statistics

Alcor had 968 members on its Emergency Responsibility List. Two memberships were approved during the month of May, no memberships were reinstated, no members were transferred to associate member, one membership was cancelled. There were no members cryopreserved. Overall, there was a net gain of one member in May.

Applicant Statistics

Alcor had 42 applicants for membership. Four new applicants were added, two applicants were converted to members and one applicant was cancelled resulting in no net gain in May.

Associate Members

Alcor had 9 associate members and no full members were transferred to associate member in May.

Information Packet Statistics

Alcor received 43 info pack requests in May. Fifteen were handed out during facility tours or from special requests. The average total of 85 info packs sent per month in 2012 compares to 104 in 2011. The full [Information Packet](#) is now available online.

NEXT ALCOR BOARD OF DIRECTORS MEETING

The next [Alcor Board of Directors](#) meeting is scheduled for **Saturday, July 7, 2012**, at 11:00 AM (PDST) at the Alcor facility (7895 East Acoma Drive in Scottsdale, AZ). Members and the public are encouraged to attend.

End of Alcor
News
June bulletin
#113 dated
June 27, 2012

To subscribe to this monthly newsletter, visit www.alcornews.org and follow instructions on the web site, or send a blank piece of email to alcornews-subscribe@alcornews.org with the single word subscribe in the subject line. You will receive email asking you to confirm your request for Alcor News. To unsubscribe or change your email address, visit www.alcornews.org and alter your preferences.
