



Mike Shy

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Society Radio Operators



Volume 73 Number 3 & 4

March - April 2013

SRO Meeting - April 10th at the Edgebrook Field House - 8 PM

Upcoming Events

CFMC Regular
Meeting - April 17th at
the Edgebrook Field
House - 8PM

DeKalb Hamfest -
Sunday May 5th at the
Sandwich Fairgrounds
in Sandwich IL For
Info: 815-895-7584 or
W9ICU@arrl.net

6M Club Hamfest -
Sunday June 16th at the
DuPage County
Fairgrounds. Check
website at
www.k9ona.com

Spring Auction

Spring is slowly coming but should be here by the April meeting. We have had a couple early hamfests and a bunch more are scheduled for May, June and later. In the mean time, look in your drawers and closets for things you have not used in a while. Someone may be looking to have it and use it by taking it off your hands in exchange for some money. As in the past, the SRO cut will be 10% up to \$5.00. We always have a great time so put the 10th of April on your calendar and bring a friend.



SRO Notes for February 12, 2013 (or: Insulation of Officers)

By Jim Hawes AA9DT

TONIGHT'S MEETING. President Mike Leibovitz WA9EVF leads the invocation at about 8 p.m. Following custom, we stand and divide into two groups, the Dits and the Dahs (No Duhs). Then, as Mike directs with the club baton, each group recites half of the Morse alphabet.

NEW MEMBERS. SRO welcomes Marty Squillaci KB9SMR and Tony Coleman N9VVO. Each is too smart to run for office. The announcement of elections produces general laughter. As the mirth dies down, the club unanimously reelects the current slate of officers for another year.

TREASURER'S REPORT. Paraphrasing Chancellor Mike Brost WA9FTS, "the club is solvent."

TONIGHT'S PROGRAM is the Nova episode "Making Stuff Cleaner" with host David Pogue.

OEM REPLACEMENT PARTS FOR HUMANS

Mary, Mary, quite contrary: How does your garden grow? Now Dr. Mary's growing body parts for her patients! A recent Wall Street Journal article details startling progress in the science of grown replacements for human organs. In the lab, medical personnel can now produce noses and outer ears. Over the past few years, implant teams have replicated and replaced several bladders. Meanwhile, doctors have implanted five tracheas (windpipes) with lab-grown parts. Soon,

Dr. Alex Seifalian's bioengineered coronary artery will take root in a patient's chest, saving another life. With successful generated noses and outer ears, scientists are beginning to discuss growing entire faces.

STEM CELLS from a patient's own body are the basis for bioengineered organs. These organs are easier to transplant than organs from cadavers or human donors: Bioengineered transplants *don't* require lifelong immunosuppressive treatments, as would conventional transplants.

HUMAN HEART. Until recently, the science has concentrated on passive organs that have a low internal complexity. Yet Dr. Doris Taylor already succeeded in bioengineering a beating rat heart for a University of Minnesota project. She and her team are now at work on further experiments in Spain. This time, the goal is a transplantable *human* heart.

HEART BIOENGINEERING STARTS with a cellular scaffold. The scaffold is a cadaver heart that technicians have scrubbed with chemicals. The scrubbing process removes living cells from the heart, leaving behind only a porous, collagen scaffold.

SCAFFOLD. Next, technicians paint the scaffold with stem cells from the patient's own bone marrow. The technicians insert the scaffold into a special windowed chamber, the "bioreactor." Through valves, the team bathes the scaffold in cellular nutrients, chemicals and oxygen. Other valves remove cellular waste products. Input and output fluids must travel at an appropriate pace for the growing organ: About a gallon per minute.

WEEKS PASS. The stem cells band together, reproduce neighbor cells, and organize into a community. This community soon becomes a beating organ. Its shape follows every contour of the scaffold. With a pacemaker, scientists coordinate the beating cells so that they faithfully produce a normal heartbeat.

IN SPAIN, Dr. Francisco Fernandez-Aviles oversees this cutting-edge heart research. Dr. Aviles expects such hearts to be available to patients in 10 years. The clock is already ticking. This April, Harvard Bioscience, Inc. will provide the heart bioreactor to the team.

SOURCE for "OEM Replacement Parts for Humans": Naik, Gautam. "Science Fiction Comes Alive As Researchers Grow Organs in Lab." Wall Street Journal, Saturday/Sunday, March 23-24, 2013, pp. A1 and A5.

Growing a New Heart

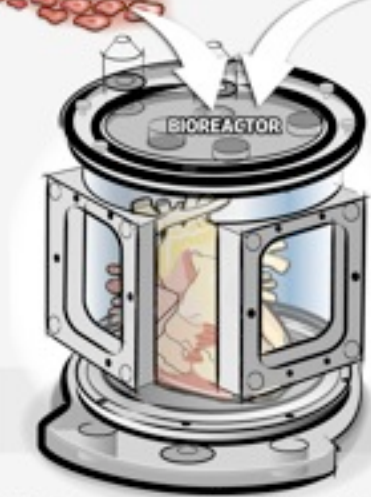
The science-fiction dream of building human body parts is becoming a reality, but growing a heart will be tougher than other organs because of its size and complexity. Here's one method being tried by scientists in Spain.

1. A heart is removed from a cadaver.



3. Stem cells are obtained from the bone marrow or fat tissue of the patient who needs a heart transplant.

ADULT STEM CELLS



2. The heart is rinsed with detergent, which washes away its cells over 3 to 4 days.



4. After the heart's cells are removed, what remains is the heart's underlying support structure: a 'scaffold' of collagen.

5. The patient's stem cells are put onto the scaffold and placed into a bioreactor.

6. The bioreactor provides the right dose of nutrients, oxygen and chemicals—much like a womb—to stimulate the growth of the right heart cells. This produces a new heart for the patient that his body won't reject because it is made up of his own cells.

Source: Gregorio Marañón Hospital

Joe Shostak/The Wall Street Journal



Gareth Phillips for The Wall Street Journal
Lab-made ears lie in jars at the Royal Free Hospital in London.



President's Message

Spring has Sprung...

It's time to look up and start planning on the Antenna repairs that have been waiting all winter.

April brings the bi-annual SRO auction, on the 10th. Viewing begins at 7:30 PM and Auction starts at 8 PM. The usual rules, 10% of the sale price goes to the club with a Maximum of \$5.00.

Next month brings the annual pilgrimage to Dayton. Several of the club members will be making it as usual with some spending the day before at the Wright Patterson Air and Space museum.

My son and will be among them.

It is also time to think about Field day in June. If there is interest in making a run at the contest I will set up a station that will run class 1A. If there are enough volunteers we can put up a Tri-bander and maybe a dipole. If not I will bring my 43" vertical. Please let me know if you are interested in operating by the June meeting so I can secure the area for our use.

See you all at the April 10th Meeting/Auction
De WA9EVF



Treasurer's Report

by Mike WA9FTS

Jan 1, 2013 to
Apr 10, 2013

Starting Balance	\$2095.79
Income	\$2252.64
Membership Dues	\$685.00
Misc Inc	\$1567.64
Expenses	\$16.99
Annual Report	\$10.00
Refreshments	\$6.99
Ending Balance	\$4331.44

Meeting Attendance



Feb 13th, 2013
Edgebrook Field House

Mike WA9EVF	Marc AB9O
Kathy KZ9ZWZ	Larry KB9OOR
Jean KB9FXL	Mike WA9FTS
Jim AA9DT	Steve K9VO
Wanda KC9LRZ	Pete WV9P



If you move, let the Editor know your new mailing and email addresses. It is our way of getting Mike Shy to you each time.

Upcoming SRO Events

May 29th - Board Meeting
June 12th - Regular Meeting
July 31st - Board Meeting
August 14th - Regular Meeting
October 9th - Regular Meeting - Fall Auction
October 30th - Board Meeting
December 11th - Holiday Party

Foxhunt Report

by Mike WA9FTS



1st Sat CFAR Foxhunt - Mar 3, 2013 - by John WD9EXW with Tom N9CBA and Janet

Tom and I got together early, and picked a direction based on munchies - Barnaby's - been awhile since we were there.

We drove out, checked several areas. We tried a forest preserve that was interesting, nearly missing the dinky sign: 'closed at sunset' so we left, and 5 min later a cop was there locking the gate. That would have been awkward.

We finally settled on a back parking lot tucked between a couple trucks. Right here:

http://maps.google.com/maps?saddr=41.892698,+87.961671&daddr=Natchez+Ave&hl=en&sl=42.024842,-87.78942&sspn=0.002606,0.004039&geocode=FVo7fwIduc_B-g%3BFdU_gQIdbnDE-g&t=h&mra=dme&mrsp=1&sz=18&z=18

Google reports 19 mi away. And says the winning route should be 294 overshooting to the Dempster exit.

We thought it should be very straightforward, but hunters reported some area reflections. Interestingly, while it was an easy drive up, most hunters walked up for the score. With 3 hunters approaching on the wrong side of the fence.

- #1 - Marty KB9SMR & Bill @ 8:42
- #2 - Tony AA9CC & Joan KC9QQY
- #3 - Mike WA9FTS
- #4 - Matt KC9SEM & Patty, Jake & Mack
- #5 - Don W9RA
- #6 - Kevin N9JPG, Jim, Dave KD7MBX, Colin



Ed note: I left before the hunters arrived at

Barnaby's to go to the hamfest in Sterling IL. Therefore, I was not able to take pictures of them.



SRO Officers

President
 Mike Leibovitz - WA9EVF
 Vice President
 Jean Pressel - KB9FXL
 Secretary
 Jim Hawes - AA9DT
 Treasurer
 Mike Brost - WA9FTS

SRO Directors

Jim Quinn - K9JQ
 Don Moriarty - W9RA
 Jon Tammen - K9IQF

Mike Shy Staff

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 708.457.0966 Voice

Mike Shy is published 6 times a year by the Society Radio Operators. Deadline is 2 weeks before the meeting. Contributions are welcome & should be sent to the Editor.

Regular Meeting Place

Edgebrook Field House second
 Wednesday of even months at 8 PM
 unless other-wise indicated
 in Mike Shy.

Standing Committees

Membership - K9JQ
 Program - AA9DT
 Meeting Refresh. - AA9DT
 Foxhunting - WA9FTS
 Repeater - K9IQF
 Field Day - WA9EVF
 Education - WA9EVF
 Mike Shy - WA9FTS
 Picnic - WA9FTS
 Dinner/Play - Open for 2013
 Christmas / Hanukkah Party -
 WA9EVF
 Webmaster - WA9FTS

SRO Web Site

www.w9sro.org
 Mike Brost - WA9FTS

SRO Repeaters

	In	Out
CFAR (107.2) PL	147.750	147.150
TOOFAR (110.2) PL	223.260	224.860

Repeater Personnel

Trustee - K9JQ
 CFAR Chairman - K9IQF
 Site Maintenance
 K9IQF, W9RA & W9BEA
 Control Operators
 K9IQF, TBD
 NW Maintenance
 WA9FPT
 Northeast Maintenance
 K9IQF & TBD
 Lisle Maintenance
 WA9AEK

Regular meetings

- Edgebrook
 Field House - 6100 N Central Av
 Chicago IL
 Board Meetings - Every 5th Wed -
 7:30 PM - BQS Realty - 6023 N
 Cicero Av Chicago IL

Mike Shy

Mike Brost - WA9FTS - Editor
5127 N. Monterey Dr.
Norridge IL 60706-3245



First Class Mail



Spring Auction

April 10th

Edgebrook Field House

